

# SHARP SERVICE MANUAL

No. S1301CDE700//

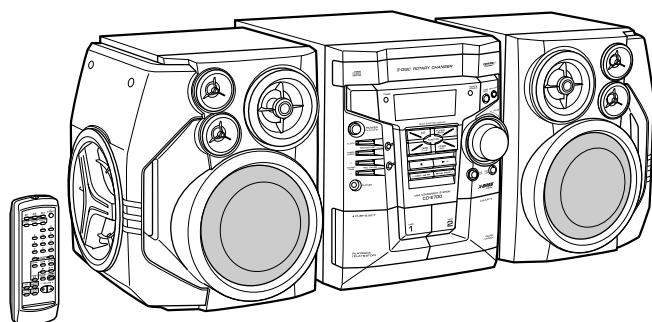


Illustration: CD-E700/CD-E77

**COMPACT**  
**disc**  
DIGITAL AUDIO

**CD-R/RW**  
Playable

**3-DISC**  
CD CHANGER  
with Play Exchange

## MINI COMPONENT SYSTEM

### MODEL CD-E700

CD-E700 Mini Component System consisting of CD-E700 (main unit) and CP-E700 (speaker system).

## MINI COMPONENT SYSTEM

### MODEL CD-E77

CD-E77 Mini Component System consisting of CD-E77 (main unit) and CP-E77 (speaker system).

• In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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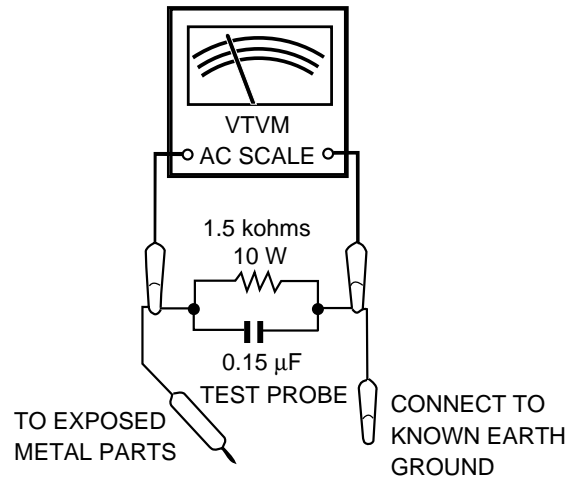
## IMPORTANT SERVICE NOTES (FOR U.S.A. ONLY)

### BEFORE RETURNING THE AUDIO PRODUCT

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
  - \* Plug the AC line cord directly into a 120 volt AC outlet.
  - \* Using two clip leads, connect a 1.5 kohm, 10 watt resistor paralleled by a 0.15  $\mu$ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.
  - \* Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).
  - \* Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.



All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

## SPECIFICATIONS

### CD-E700/CD-E77 (For U.S.A.)

#### ■ General

<b>Power source</b>	AC 120 V, 60 Hz
<b>Power consumption</b>	110 W
<b>Dimensions</b>	Width: 10-5/8" (270 mm) Height: 13" (330 mm) Depth: 13-15/16" (355 mm)
<b>Weight</b>	16.1 lbs. (7.3 kg)

#### ■ Amplifier

<b>Output power</b>	125 watts minimum RMS per channel into 6 ohms from 60 Hz to 20 kHz, 10% total harmonic distortion
<b>Output terminals</b>	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
<b>Input terminals</b>	Video/Auxiliary (audio signal): 500 mV/47 k ohms

#### ■ CD player

<b>Type</b>	3-disc multi-play compact disc player
<b>Signal readout</b>	Non-contact, 3-beam semiconductor laser pickup
<b>D/A converter</b>	1-bit D/A converter
<b>Frequency response</b>	20 - 20,000 Hz
<b>Dynamic range</b>	90 dB (1 kHz)

#### ■ Tuner

<b>Frequency range</b>	FM: 87.5 - 108 MHz AM: 530 - 1,720 kHz
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#### ■ Cassette deck

<b>Frequency response</b>	50 - 14,000 Hz (normal tape)
<b>Signal/noise ratio</b>	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
<b>Wow and flutter</b>	0.3 % (WRMS)

### CP-E700/CP-E77 (For U.S.A.)

<b>Type</b>	3-way 4-speaker system with passive radiator Super tweeter × 2 2" (5 cm) Tweeter 6-1/2" (16 cm) Woofer 6-1/2" (16 cm) Passive radiator
<b>Maximum input power</b>	250 W
<b>Rated input power</b>	125 W
<b>Impedance</b>	6 ohms
<b>Dimensions</b>	Width: 10-7/8" (277 mm) Height: 13" (330 mm) Depth: 10-3/4" (273 mm)
<b>Weight</b>	9.9 lbs. (4.5 kg)/each

### CD-E700/CD-E77 (For Canada)

#### ■ General

<b>Power source</b>	AC 120 V, 60 Hz
<b>Power consumption</b>	110 W
<b>Dimensions</b>	Width: 270 mm (10-5/8") Height: 330 mm (13") Depth: 355 mm (13-15/16")
<b>Weight</b>	7.3 kg (16.1 lbs.)

#### ■ Amplifier

<b>Output power</b>	RMS: 250 W (125 W + 125 W) (10 % T.H.D.)
<b>Output terminals</b>	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
<b>Input terminals</b>	Video/Auxiliary (audio signal): 500 mV/47 k ohms

#### ■ CD player

<b>Type</b>	3-disc multi-play compact disc player
<b>Signal readout</b>	Non-contact, 3-beam semiconductor laser pickup
<b>D/A converter</b>	1-bit D/A converter
<b>Frequency response</b>	20 - 20,000 Hz
<b>Dynamic range</b>	90 dB (1 kHz)

#### ■ Tuner

<b>Frequency range</b>	FM: 87.5 - 108 MHz AM: 530 - 1,720 kHz
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#### ■ Cassette deck

<b>Frequency response</b>	50 - 14,000 Hz (normal tape)
<b>Signal/noise ratio</b>	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
<b>Wow and flutter</b>	0.3 % (WRMS)

### CP-E700/CP-E77 (For Canada)

<b>Type</b>	3-way 4-speaker system with passive radiator Super tweeter × 2 5 cm (2") Tweeter 16 cm (6-1/2") Woofer 16 cm (6-1/2") Passive radiator
<b>Maximum input power</b>	250 W
<b>Rated input power</b>	125 W
<b>Impedance</b>	6 ohms
<b>Dimensions</b>	Width: 277 mm (10-7/8") Height: 330 mm (13") Depth: 273 mm (10-3/4")
<b>Weight</b>	4.5 kg (9.9 lbs.)/each

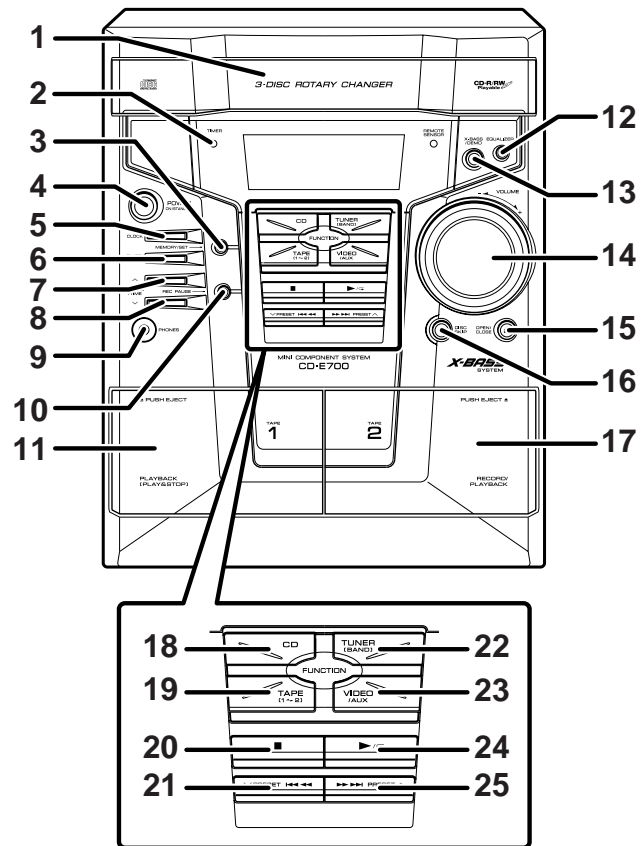
Specifications for this model are subject to change without prior notice.

## NAMES OF PARTS

### CD-E700/CD-E77

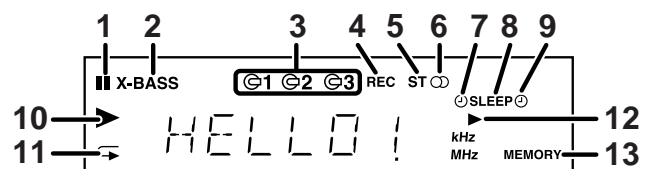
#### ■ Front panel

1. Disc Tray
2. Timer Set Indicator
3. Memory/Set Button
4. Power On/Stand-by Button
5. Clock Button
6. Timer/Sleep Button
7. Tuning and Time Up Button
8. Tuning and Time Down Button
9. Headphone Jack
10. Tape 2 Record Pause Button
11. Tape 1 Cassette Compartment
12. Equalizer Mode Select Button
13. Extra Bass/Demo Mode Button
14. Volume Control
15. Disc Tray Open/Close Button
16. Disc Skip Button
17. Tape 2 Cassette Compartment
18. CD Button
19. Tape (1 ~ 2) Button
20. CD or Tape Stop Button
21. CD Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down Button
22. Tuner (Band) Button
23. Video/Auxiliary Button
24. CD Play or Repeat, Tape Play Button
25. CD Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up Button



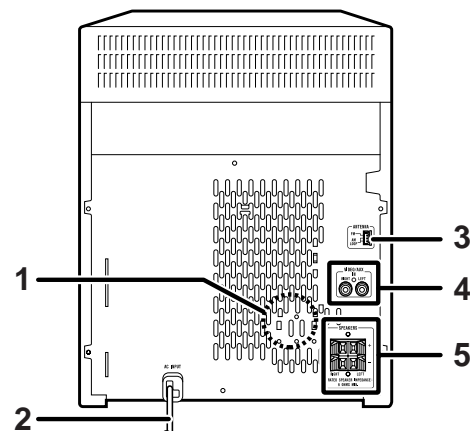
#### ■ Display

1. CD Pause Indicator
2. Extra Bass Indicator
3. Disc Number Indicators
4. Tape 2 Record Indicator
5. FM Stereo Mode Indicator
6. FM Stereo Receiving Indicator
7. Timer Play Indicator
8. Sleep Indicator
9. Timer Recording Indicator
10. CD Play Indicator
11. CD Repeat Play Indicator
12. Tape Play Indicator
13. Memory Indicator



#### ■ Rear panel

1. Cooling Fan
2. AC Power Cord
3. FM/AM Loop Antenna Jack
4. Video/Auxiliary (Audio Signal) Input Jacks
5. Speaker Terminals



#### Note:

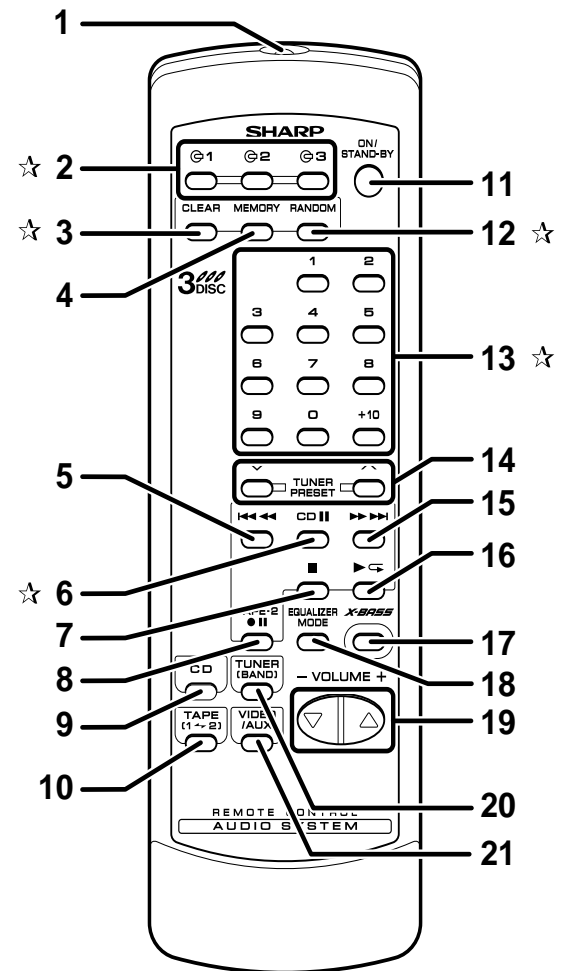
This product is equipped with a cooling fan inside, which begins to run at a specified volume level for better heat radiation.

## CD-E700/CD-E77

## ■ Remote control

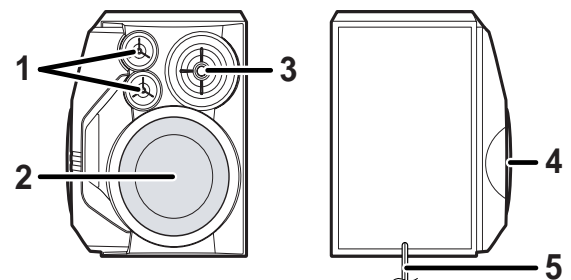
1. Remote Control Transmitter
2. **Disc Number Select Buttons**
3. **Program Clear Button**
4. CD Memory Button
5. CD Track Down or Fast Reverse,  
Tape 2 Rewind Button
6. **CD Pause Button**
7. CD or Tape Stop Button
8. Tape 2 Record Pause Button
9. CD Button
10. Tape (1 ~ 2) Button
11. Power On/Stand-by Button
12. **CD Random Button**
13. **Direct Search Buttons**
14. Tuner Preset Up and Down Buttons
15. CD Track Up or Fast Forward,  
Tape 2 Fast Forward Button
16. CD Play or Repeat, Tape Play Button
17. Extra Bass Button
18. Equalizer Mode Select Button
19. Volume Up and Down Buttons
20. Tuner (Band) Button
21. Video/Auxiliary Button

Buttons with "☆" mark in the illustration can be operated on the remote control only.



## CP-E700/CP-E77

1. Super Tweeters
2. Woofer
3. Tweeter
4. Passive Radiator
5. Speaker Wire



## DISASSEMBLY

**Caution on Disassembly**

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

**CD-E700/CD-E77**

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	6-1
2	Side Panel (Left/Right)	1. Screw ..... (B1) x8	6-1
3	CD Tray Cover/ CD Player Unit	1. Turn on the power supply, open the disc tray, take out the CD tray cover, and close. (Note 1) 2. Screw ..... (C1) x1 3. Hook ..... (C2) x3 4. Hook ..... (C3) x2 5. Socket ..... (C4) x2	6-2
4	Rear Panel with Fan Motor	1. Screw ..... (D1) x7 2. Socket ..... (D2) x1	6-2
5	Main PWB	1. Screw ..... (E1) x3 2. Socket ..... (E2) x3 3. Flat Cable ..... (E3) x1 4. Flat Wire ..... (E4) x1	6-2, 7-1 7-1
6	Front Panel	1. Screw ..... (F1) x1 2. Hook ..... (F2) x2 3. Flat Wire ..... (F3) x1	7-1
7	Display PWB	1. Knob ..... (G1) x1 2. Screw ..... (G2) x10 3. Flat Cable ..... (G3) x1	7-2
8	Tape Mechanism	1. Open the cassette holder. 2. Screw ..... (H1) x5	7-2
9	Headphones PWB	1. Screw ..... (J1) x1	7-2
10	Turntable	1. Hook ..... (K1) x2 2. Cover ..... (K2) x1	7-3
11	Loading Tray	1. Turn fully the lock lever in the arrow direction. 2. Push the loading tray backward to engage the claw with the groove and remove it in the direction of the arrow. ... (L1) x6	6-3 7-4
12	CD Servo PWB (Note 2)	1. Screw ..... (M1) x2 2. Hook ..... (M2) x1 3. Socket ..... (M3) x4	7-5
13	CD Mechanism	1. Hook ..... (N1) x2 2. Hook ..... (N2) x2	7-6

**Note 1:** How to open the changer manually. (Fig. 6-3)

1. In this state, turn fully the lock lever in the arrow direction through the hole on the loading tray bottom.
2. After that, push forward the Loading tray.

**Note 2:**

1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electrostatic damage.

**Note 3:**

1. Be careful not to break the claw of the CD mechanism.
2. When fining back the cam gear assembly, let it lock by front movement.

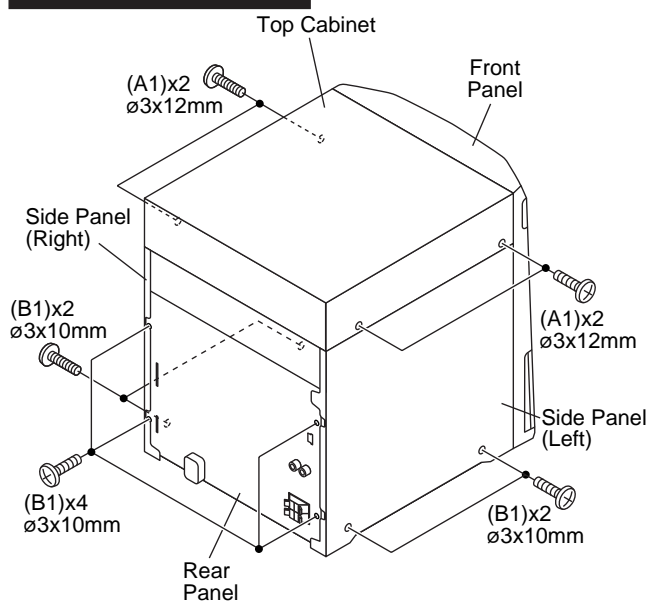
**CD-E700/CD-E77**

Figure 6-1

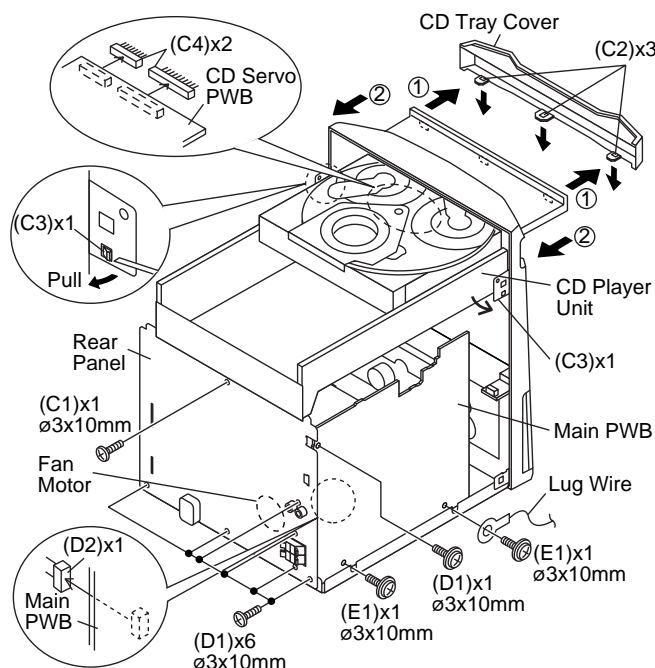


Figure 6-2

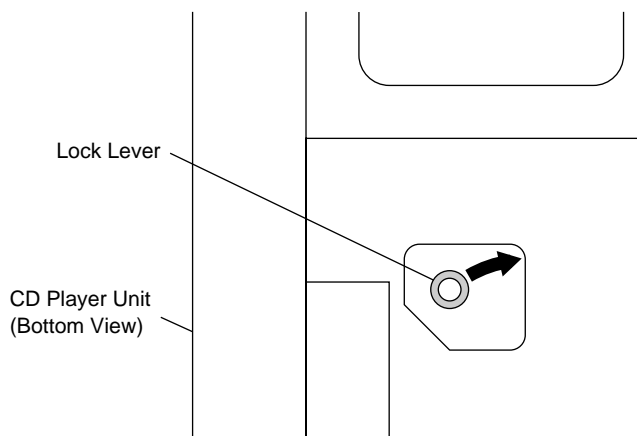


Figure 6-3

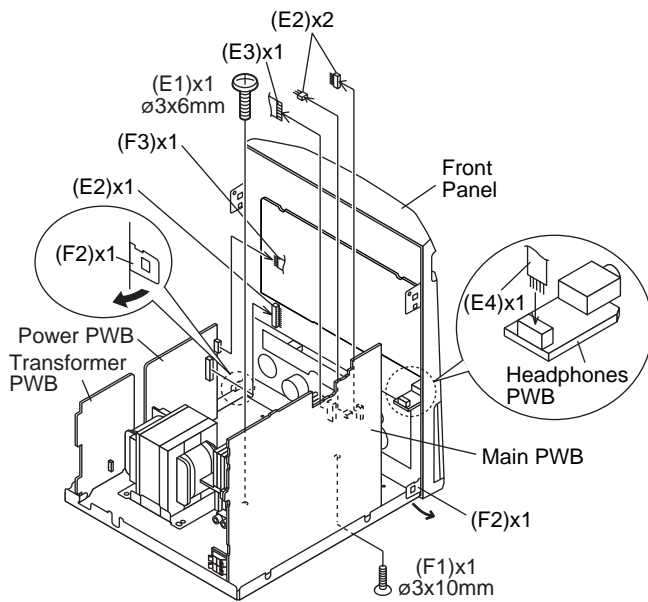


Figure 7-1

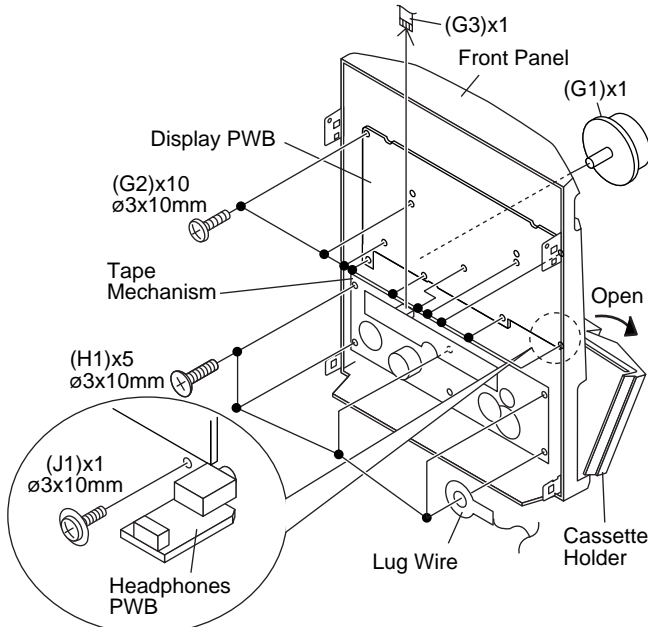


Figure 7-2

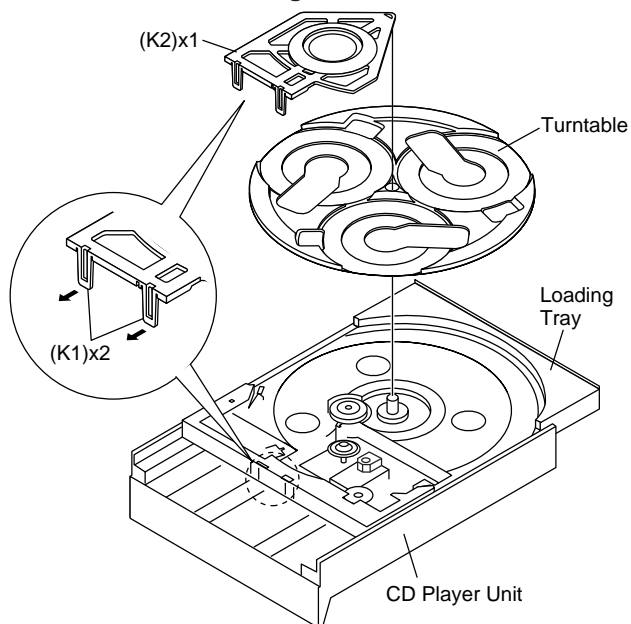


Figure 7-3

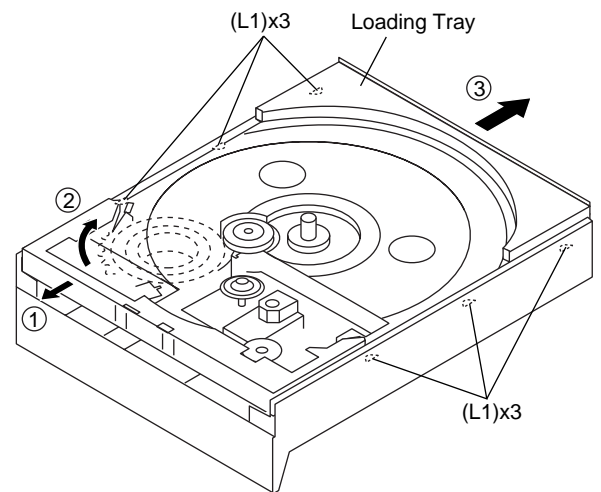


Figure 7-4

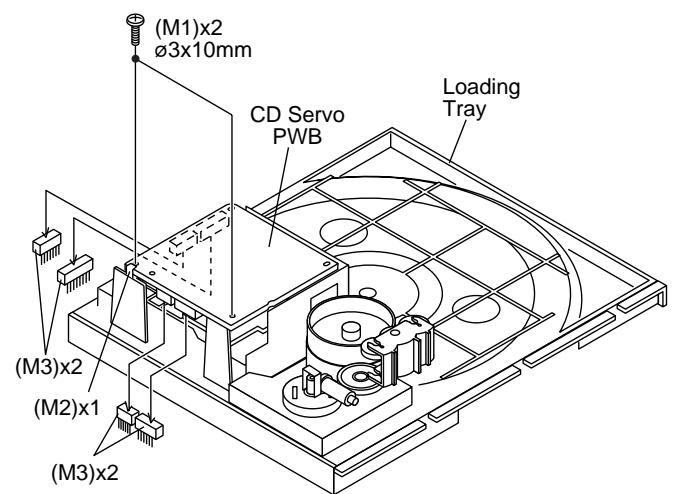


Figure 7-5

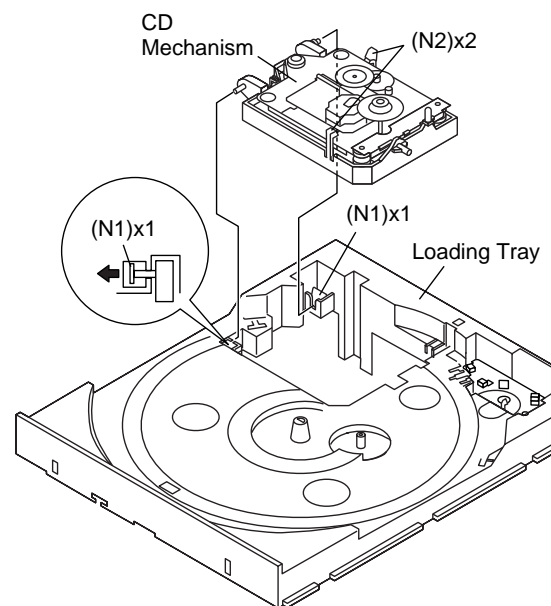


Figure 7-6



CD-E700/CD-E77

CP-E700/CP-E77			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Passive Radiator	1. Screw ..... (A1) x4	8-1
		2. Side Panel ..... (A2) x1	8-3
		3. Screw ..... (A3) x4	
2	Woofer	1. Front Panel ..... (B1) x1	8-2
		2. Screw ..... (B2) x4	8-3
3	Tweeter	1. Screw ..... (C1) x2	8-3
4	Super Tweeter	1. Screw ..... (D1) x4	8-3

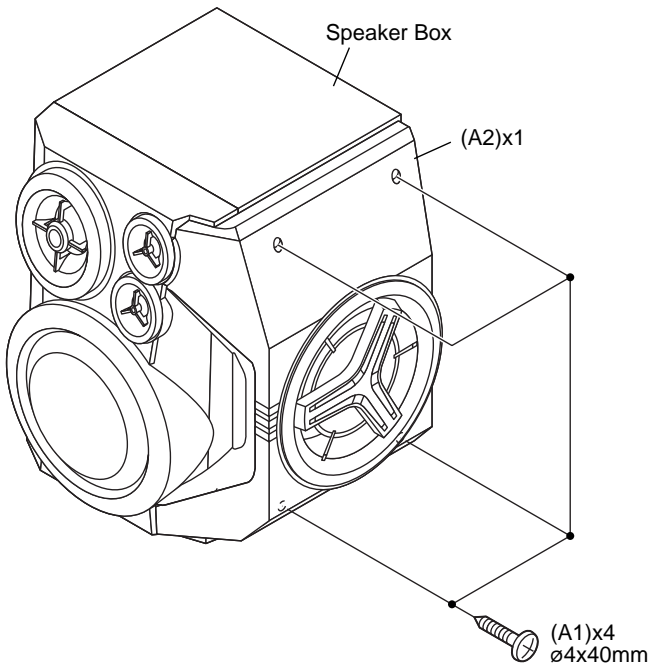


Figure 8-1

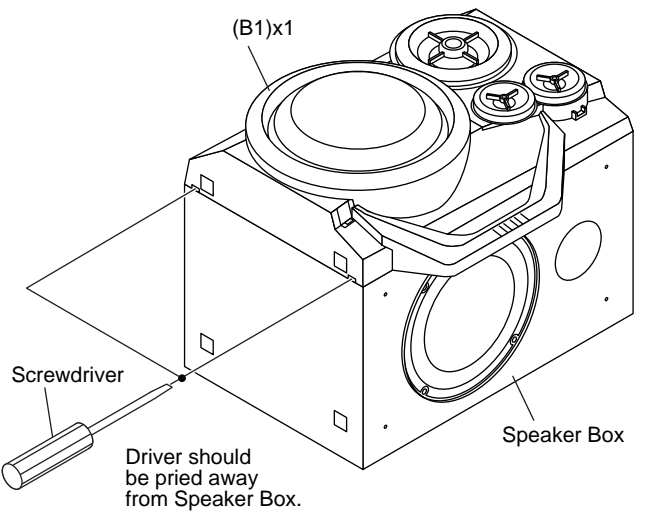


Figure 8-2

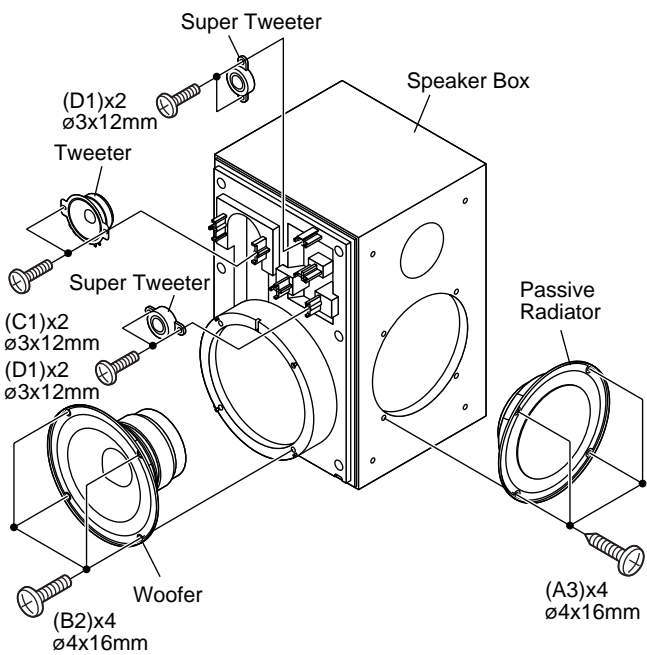


Figure 8-3



## REMOVING AND REINSTALLING THE MAIN PARTS

### TAPE MECHANISM SECTION

Perform steps 1 to 6 and 8 of the disassembly method to remove the tape mechanism.

#### How to remove the record/playback and erase heads (TAPE 2) (See Fig. 9-1)

1. When you remove the screws (A1) x 2 pcs., the recording/playback head and three-dimensional head of the erasing head can be removed.

#### How to remove the playback head (TAPE 1) (See Fig. 9-2)

1. When you remove the screws (B1) x 2 pcs., the playback head can be removed.

#### How to remove the pinch roller (TAPE 1/2) (See Fig. 9-3)

1. Carefully bend the pinch roller pawl in the direction of the arrow <A>, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow <B>.

##### Note:

When installing the pinch roller, pay attention to the spring mounting position.

#### How to remove the belt (TAPE 2) (See Fig. 9-4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

#### How to remove the belt (TAPE 1) (See Fig. 9-4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

#### How to remove the motor (See Fig. 9-5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

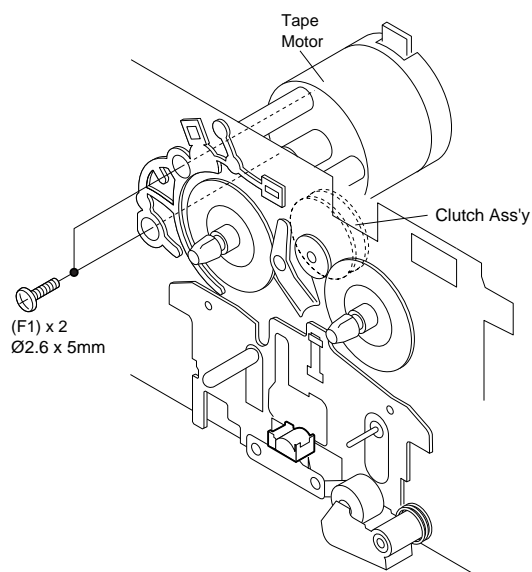


Figure 9-5

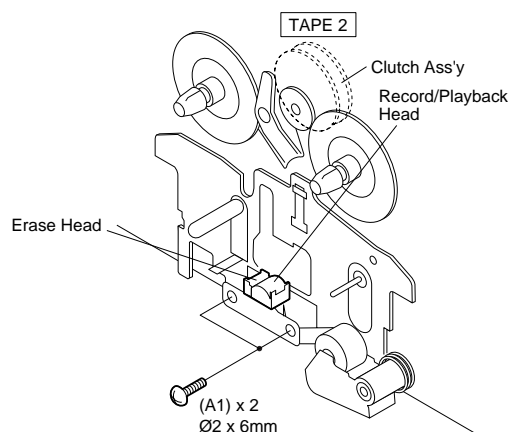


Figure 9-1

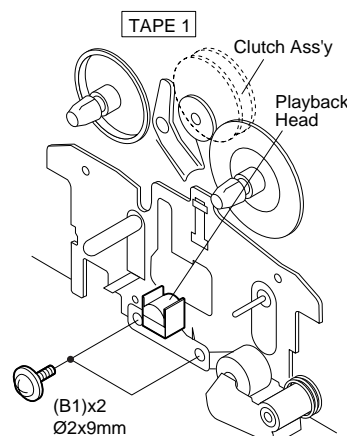


Figure 9-2

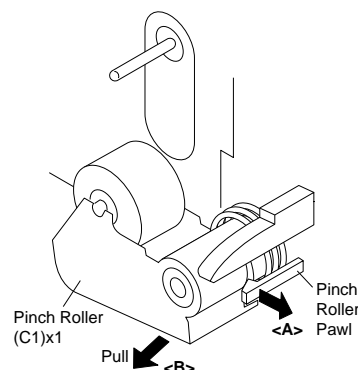


Figure 9-3

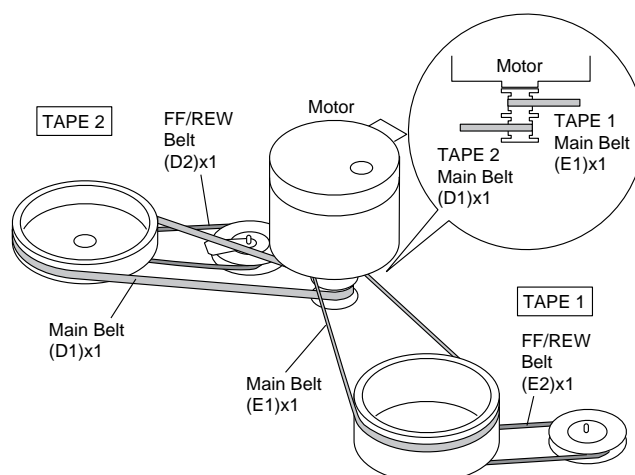


Figure 9-4

## CD-E700/CD-E77

### CD MECHANISM SECTION

Perform steps 1, 2, 3, 10, 11,12 and 13 of the disassembly method to remove the CD mechanism.

#### How to remove the loading motor (See Fig. 10-1)

1. Bend the hooks (A1) x 5 pcs., to remove the loading motor.

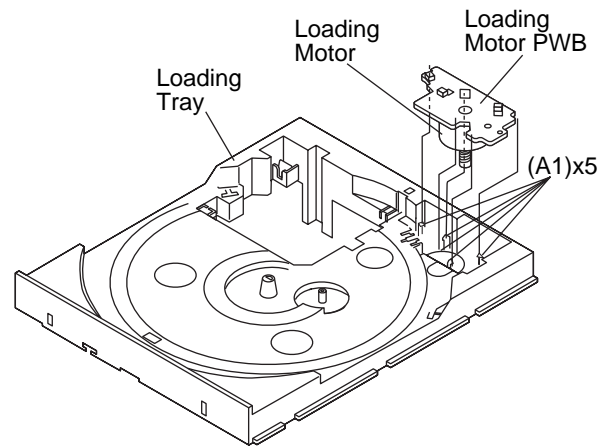


Figure 10-1

#### How to remove the pickup unit (See Fig. 10-2)

1. Remove the stop washer (B1) x 1 pc., to remove the gear (B2) x 1 pc.
2. Remove the screws (B3) x 2 pcs., to remove the shaft (B4) x 1 pc.
3. Remove the pickup.

#### Note

After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

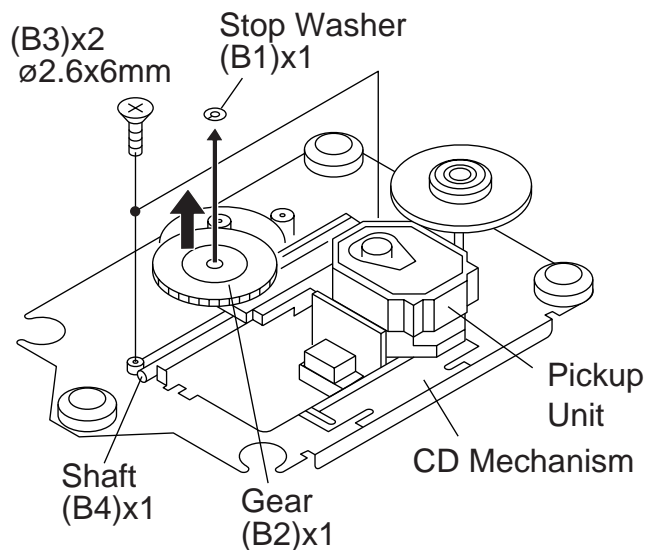


Figure 10-2

## ADJUSTMENT

### MECHANISM SECTION

#### • Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

#### • Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g.cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
Rewind: TW-2231	—	70 to 180 g.cm

#### • Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor.	3,000 ± 30 Hz	Speaker Terminal (Load resistance: 6 ohms)

### TAPE MECHANISM

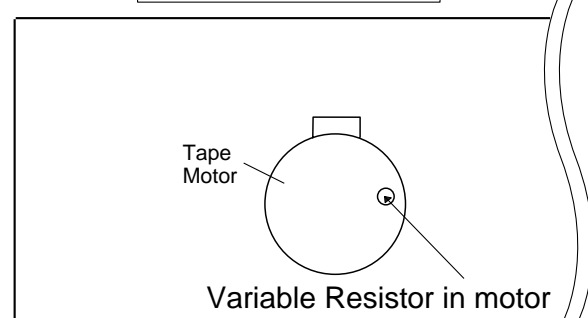


Figure 10-3

## TUNER SECTION

fL: Low-range frequency

fH: High-range frequency

### • AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,720 kHz	T351	*1
AM Band Coverage	—	530 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

\*1. Input: Antenna Output: TP302

\*2. Input: Antenna Output: TP301

### • FM RF

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Point	Instrument Connection
FM Band Coverage	—	87.50 MHz	T301 (fL): 1.3 V ± 0.1 V	*1
FM RF	98.00 MHz (10-30 dB)	98.00 MHz	L312	*2

\*1. Input: Antenna Output: TP301

\*2. Input: Antenna Output: Speaker terminal

### • FM IF

Signal generator: 10.7 MHz, FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Point	Instrument Connection
IF	10.7 MHz	98 MHz	T302 (Turn the core of transformer T302 fully counter-clock wise)	*1

\*1. Input: Antenna Output: TP301

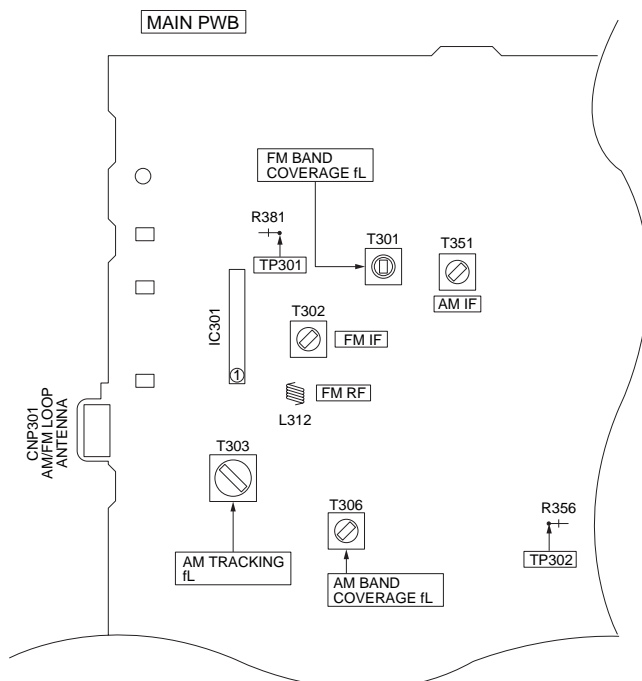


Figure 11-1 ADJUSTMENT POINTS

## CD SECTION

### • Adjustment

Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.

Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

### Items adjusted automatically

(1) Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)

\* Focus offset adjustment

\* Tracking offset adjustment

(2) Tracking balance adjustment (waveform drawing Fig.11-2 EFBL)

(3) Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0 dB.)

\* Focus gain adjustment

\* Tracking gain adjustment

## CD ERROR CODE DESCRIPTION

Error	Explanation
01	When Pickup set inner position, inner switch cannot detect 'ON' level for 10 secs.
10*	When tray moves to Open/Close, Open/Close switch cannot detect 'ON' level for 7 secs. When disc table rotate to target position. Clamp switch cannot detect 'ON' level for 7 secs.
11*	When disc table set to Disc1 position for 1 st time, "CLAMP SW", "DISC NO SW" and "OPEN/CLOSE" cannot detect 'ON' level for 14 secs.
31	When it changes to CD function, DSP cannot read initial data.

### \* 'CHECKING'

If Error is detected, 'CHECKING' will be display instead of 'ER-CD\*\*' display. 'ER-CD\*\*' display will only be display when error had been detected for the 5 th times.

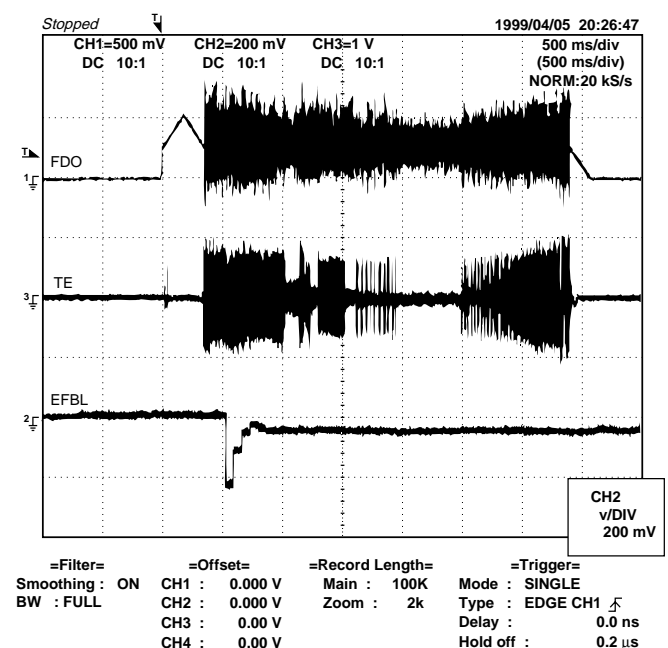


Figure 11-2

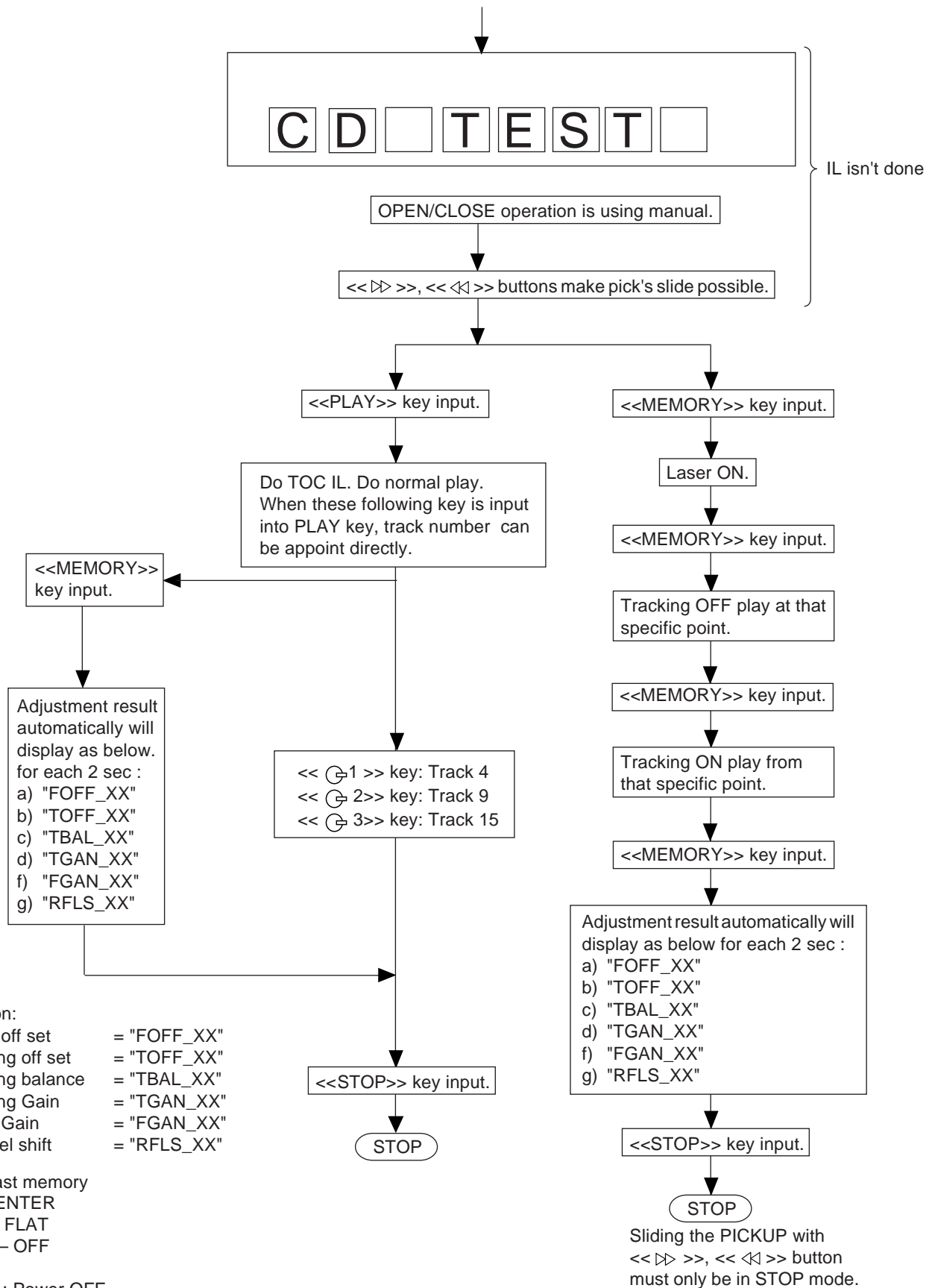
## TEST MODE

## • Setting the test mode

Any one of test mode can be set by pressing several keys as follows.

<X-BASS> + <CD> + <POWER> TEST: CD operation test.

Function: -CD test mode.  
-Enter test mode.



## Standard Specification of Stereo System Error Message Display Contents

Error Contents		DISPLAY	Notes
CD	Pickup Mechanism Error.	'ER-CD**'	01: PU-IN SW Detection NG.
	CD Changer Mechanism Error.	'ER-CD**' (*)	10: Changer Error. 11: Initial Error.
	CD DSP Communication Error	'ER-CD**'	31: DSP COMMUNICATION ERROR
	Focus Not Match.	'NO DISC'	
TUN	PLL Unlock.	FM 87.5 MHz	PLL Unlock.

(\*) CHECKING:

If CD changer mechanism error is detected, 'CHECKING' will be display instead of 'ER-CD\*\*' display 'ER-CD\*\*' will only be display when CD changer mechanism error had been detected for the 5 th times.

### Speaker abnormal detection and +B PROTECTION display

In case speaker abnormal detection or +B PROTECTION had occurred, it can be check by pressing 'POWER', 'VIDEO' and 'X-BASS' key twice. Display will show "S\*\* B\*\*". S is referring to speaker abnormal detection and B is referring to +B PROTECTION. \*\* is in hex valve.

+B PROTECTION is condition when irregular process occur on power supply line.

### BEFORE TRANSPORTING THE UNIT

The following process need to be taken after set tapering/parts replacement.

1. Press the Power On Button to enter Powre mode.
2. While pressing down the ► button and the X-Bass/Demo button, press the Power button until "CLEAR AL" appears
3. While pressing down the ◀◀/▶▶ button and the X-Bass/Demo button , press the Power button until "WAIT" → "FINISHED" appears.
4. Unplug the AC cord and the unit is ready for transporting.

## NOTES ON SCHEMATIC DIAGRAM

- Resistor:

To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.

- Capacitor:

To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.

(CH), (TH), (RH), (UJ): Temperature compensation

(ML): Mylar type

(P.P.): Polypropylene type

- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

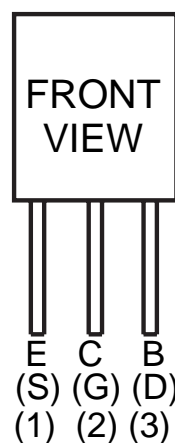
1. In the tuner section, indicates AM  
indicates FM stereo
2. In the main section, a tape is being played back.
3. In the deck section, a tape is being played back.  
( ) indicates the record state.
4. In the power section, a tape is being played back.
5. In the CD section, the CD is stopped.

- Parts marked with "△" ( □ = = = □ ) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

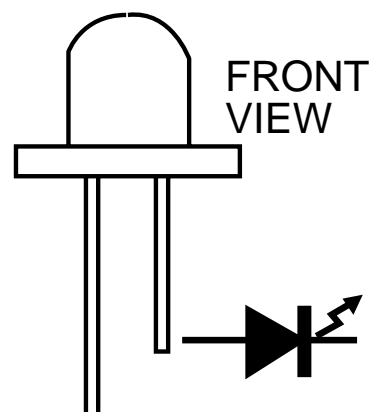
REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	POWER	ON—OFF
SW702	MEMORY SET	ON—OFF
SW703	REC/PAUSE	ON—OFF
SW704	TUNING DOWN	ON—OFF
SW705	TUNING UP	ON—OFF
SW706	TIMER/SLEEP	ON—OFF
SW707	CLOCK	ON—OFF
SW711	CD	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW712	TUNER	ON—OFF
SW713	VIDEO/AUX	ON—OFF
SW714	TAPE	ON—OFF
SW715	STOP	ON—OFF
SW716	PLAY	ON—OFF
SW717	FAST FORWARD	ON—OFF
SW718	FAST REWIND	ON—OFF
SW721	X-BASS/DEMO	ON—OFF
SW722	EQUALIZER	ON—OFF
SW723	OPEN/CLOSE	ON—OFF
SW724	DISC SKIP	ON—OFF

## TYPES OF TRANSISTOR AND LED



KRC102 M	KTA1271 Y
KRC104 M	KTC3194 Y
KTA1266 GR	KTC3199 GR
KTA1273 Y	KTC3200 GR
KTA1274 Y	KTC3203 Y



304VT2E1  
A503BC2E

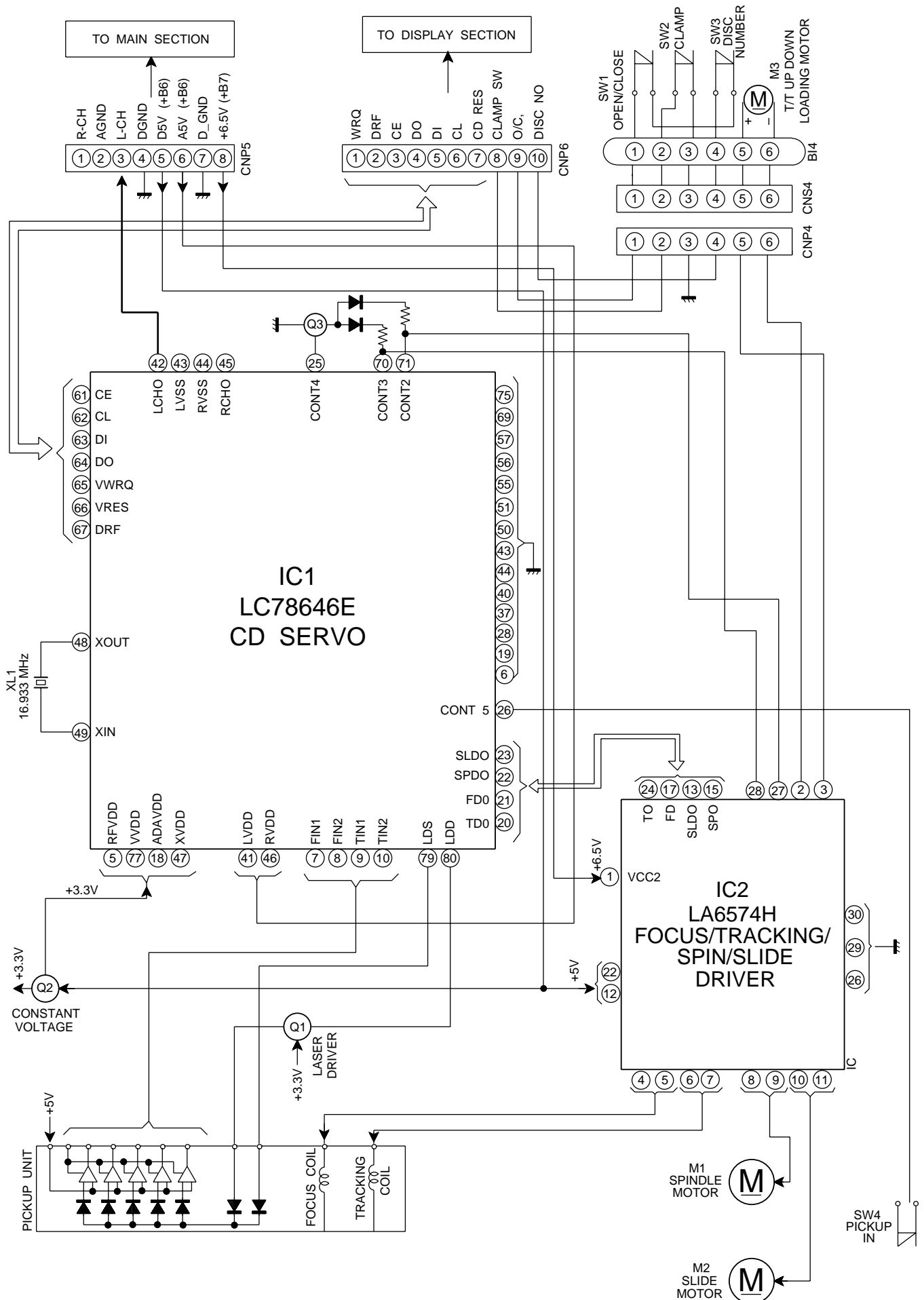
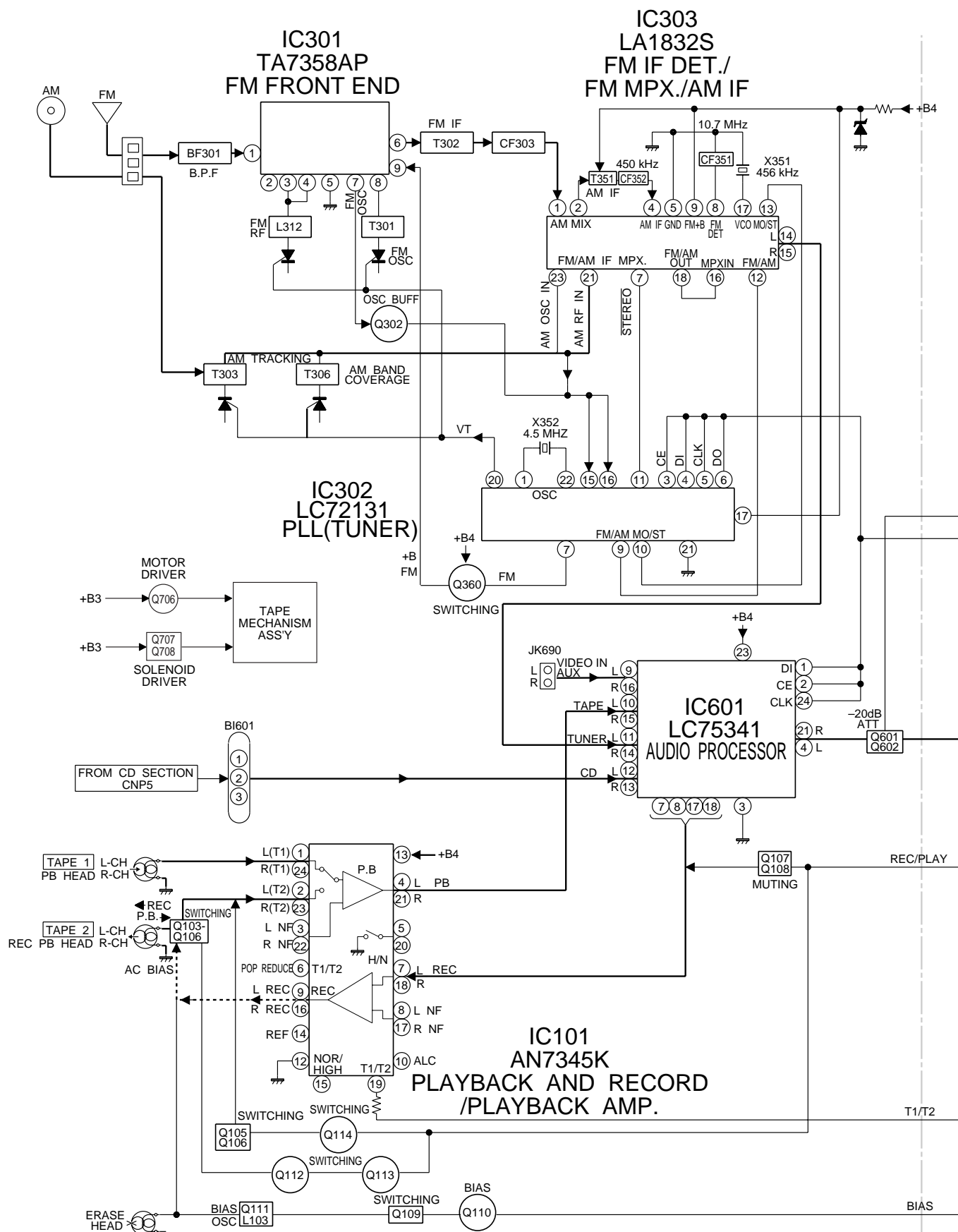


Figure 15 BLOCK DIAGRAM (1/3)





**Figure 16 BLOCK DIAGRAM (2/3)**

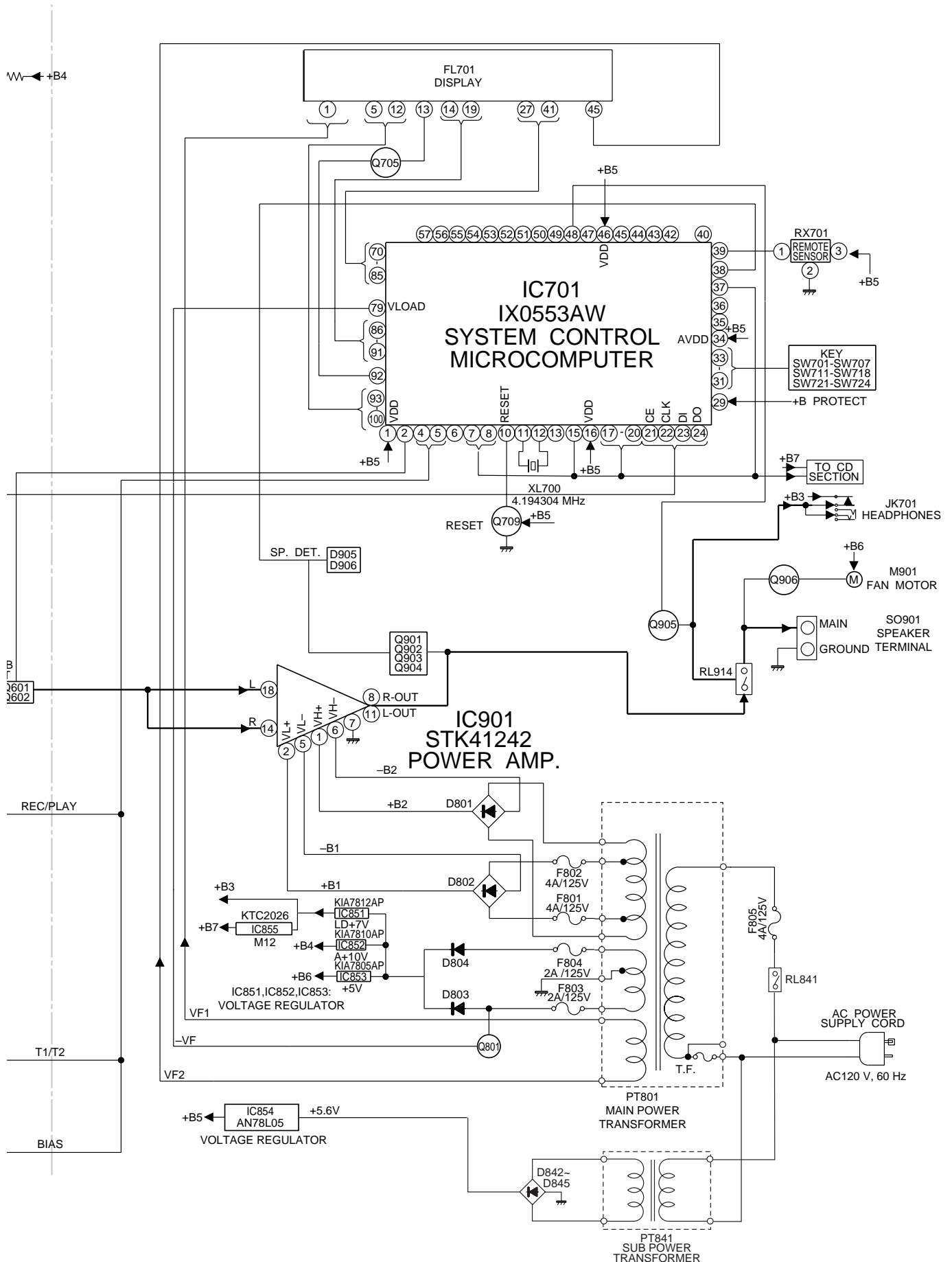


Figure 17 BLOCK DIAGRAM (3/3)

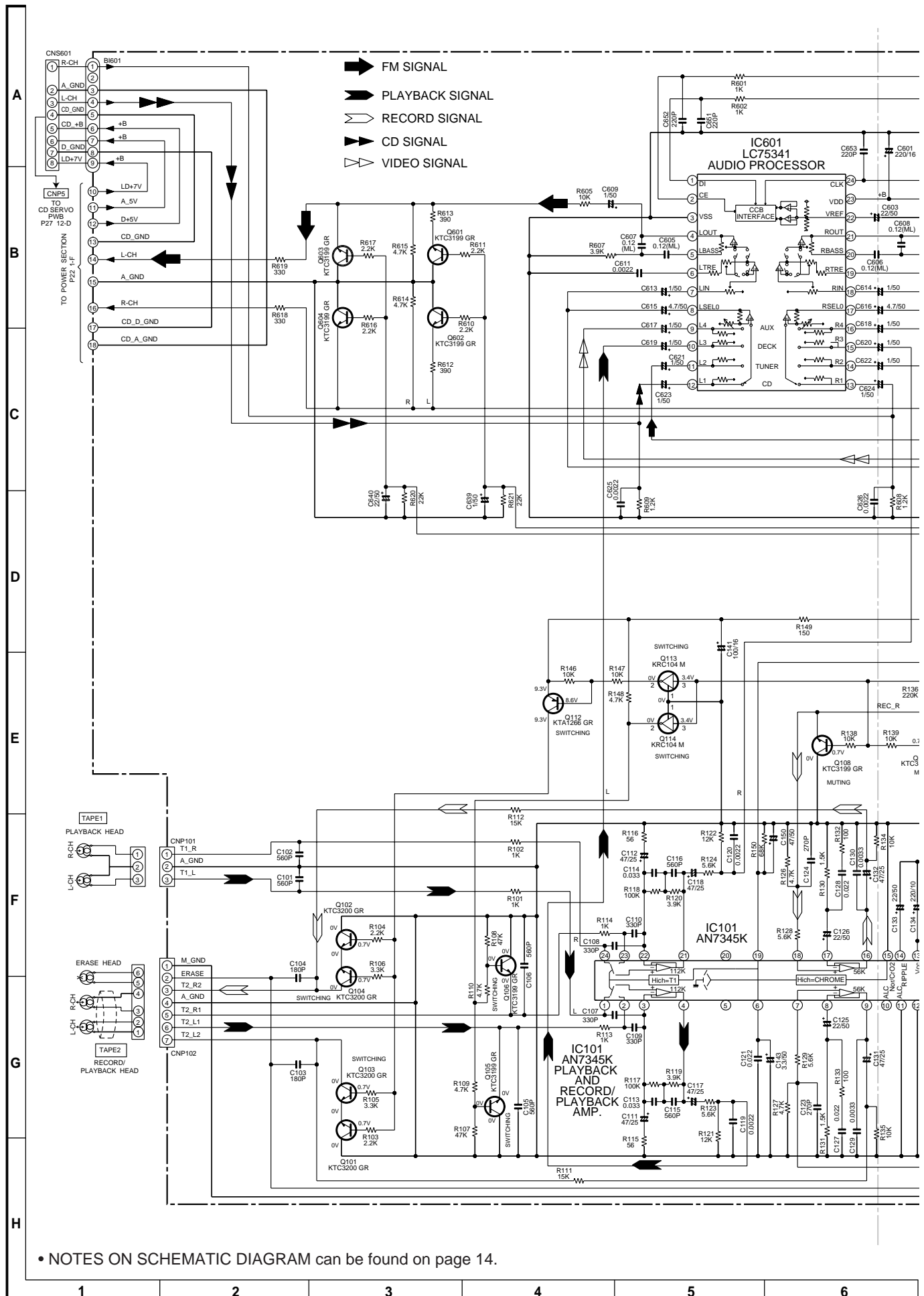
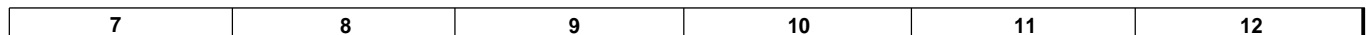


Figure 18 SCHEMATIC DIAGRAM (1/10)



- 19 -

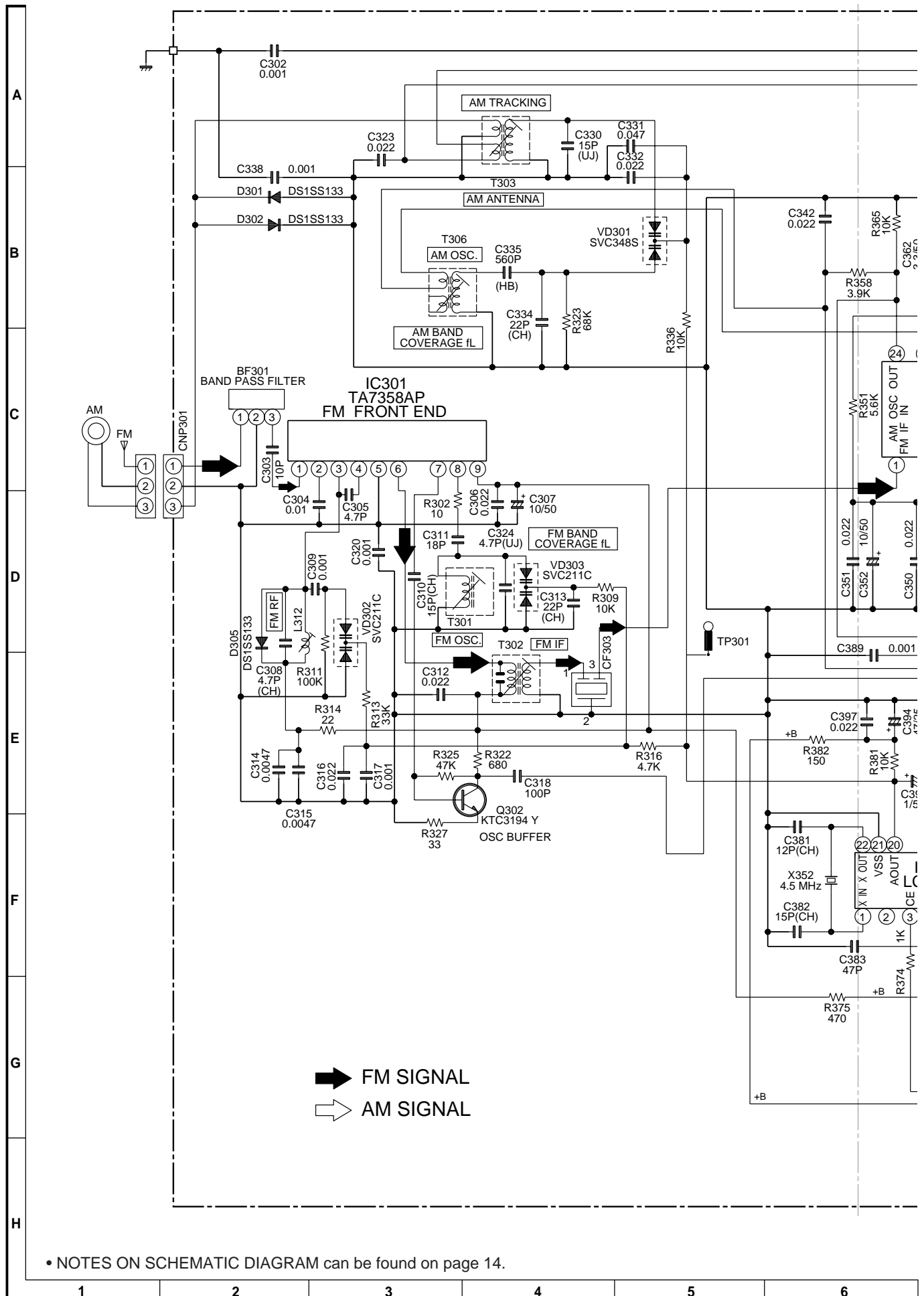
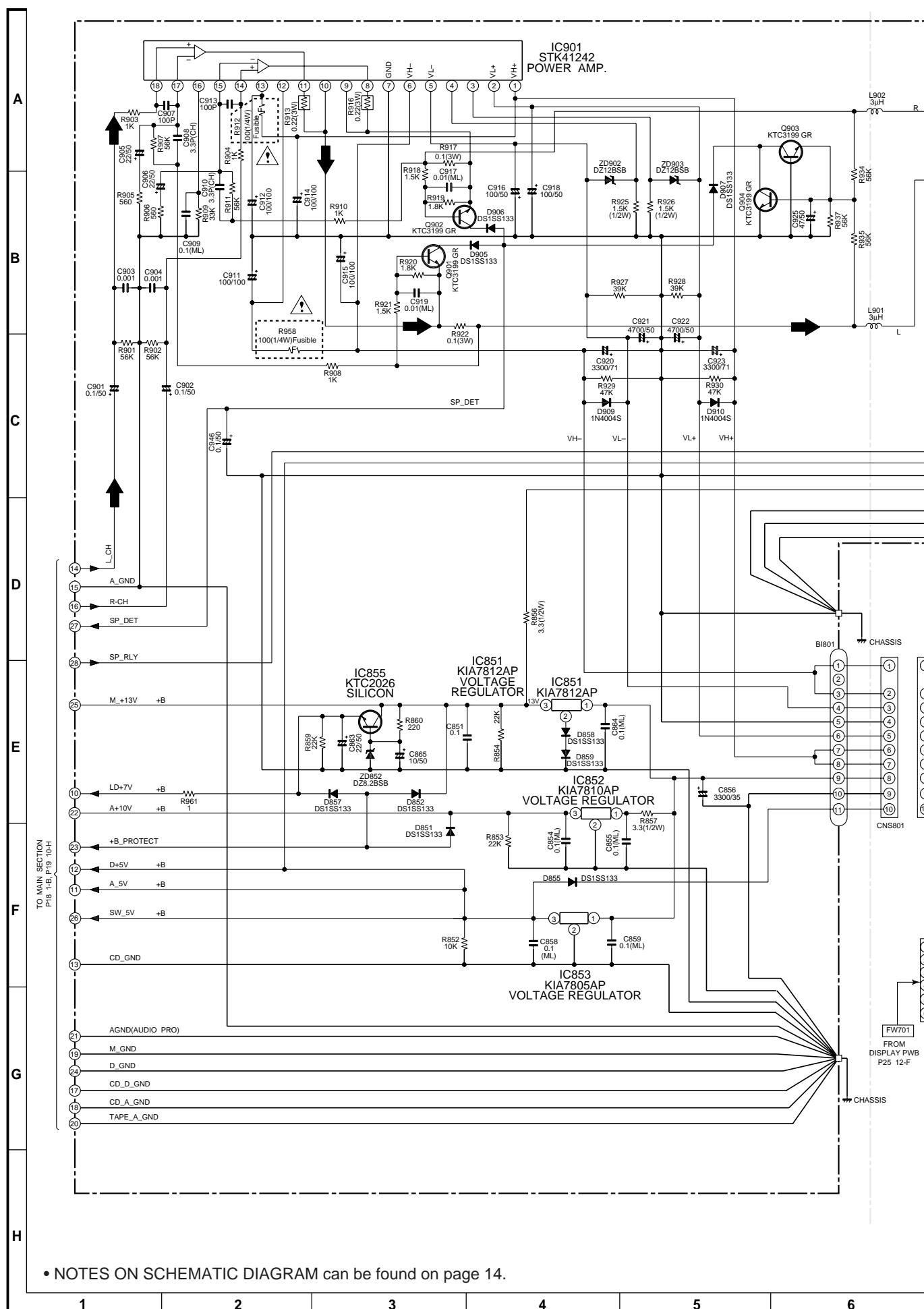


Figure 20 SCHEMATIC DIAGRAM (3/10)





**Figure 22 SCHEMATIC DIAGRAM (5/10)**



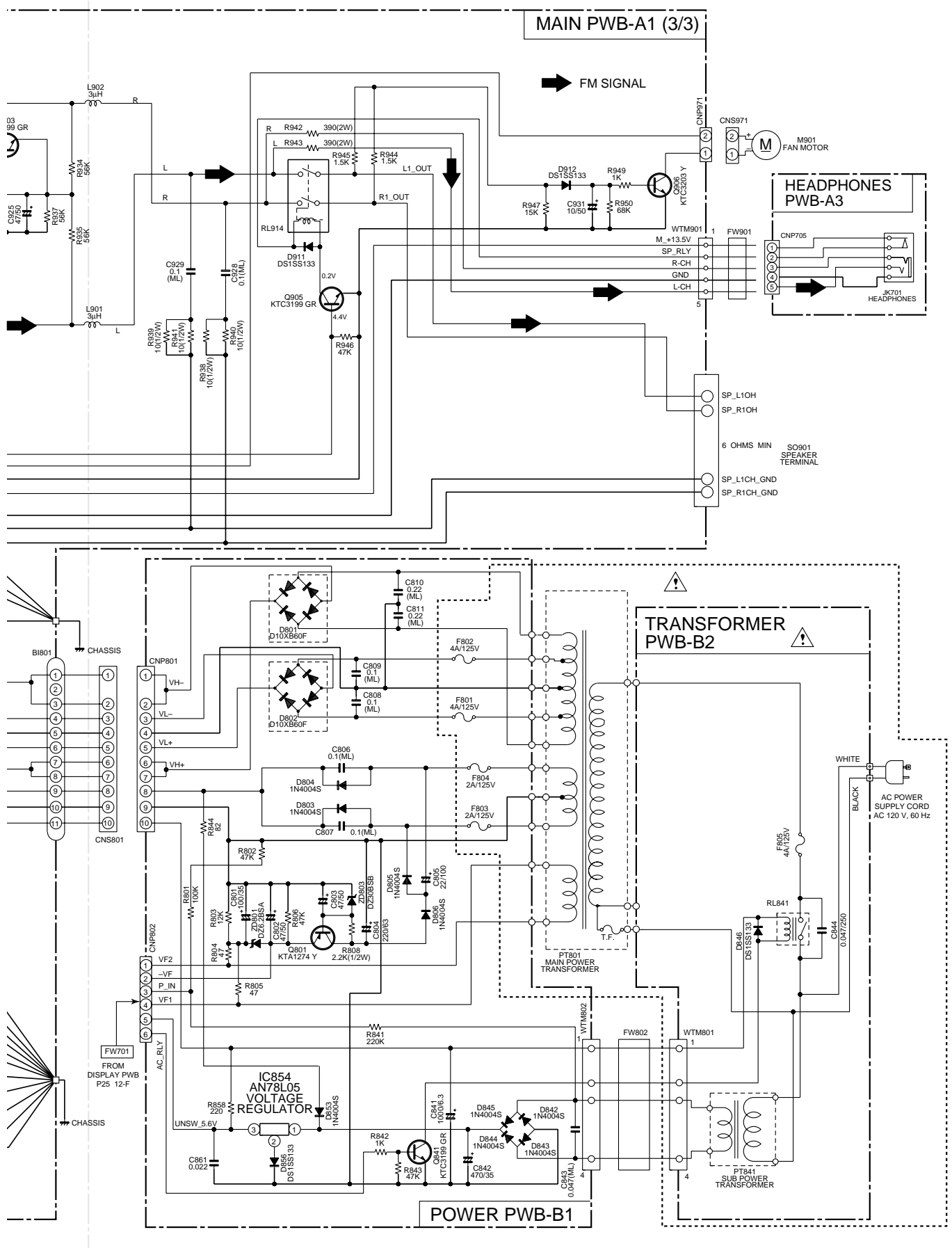


Figure 23 SCHEMATIC DIAGRAM (6/10)

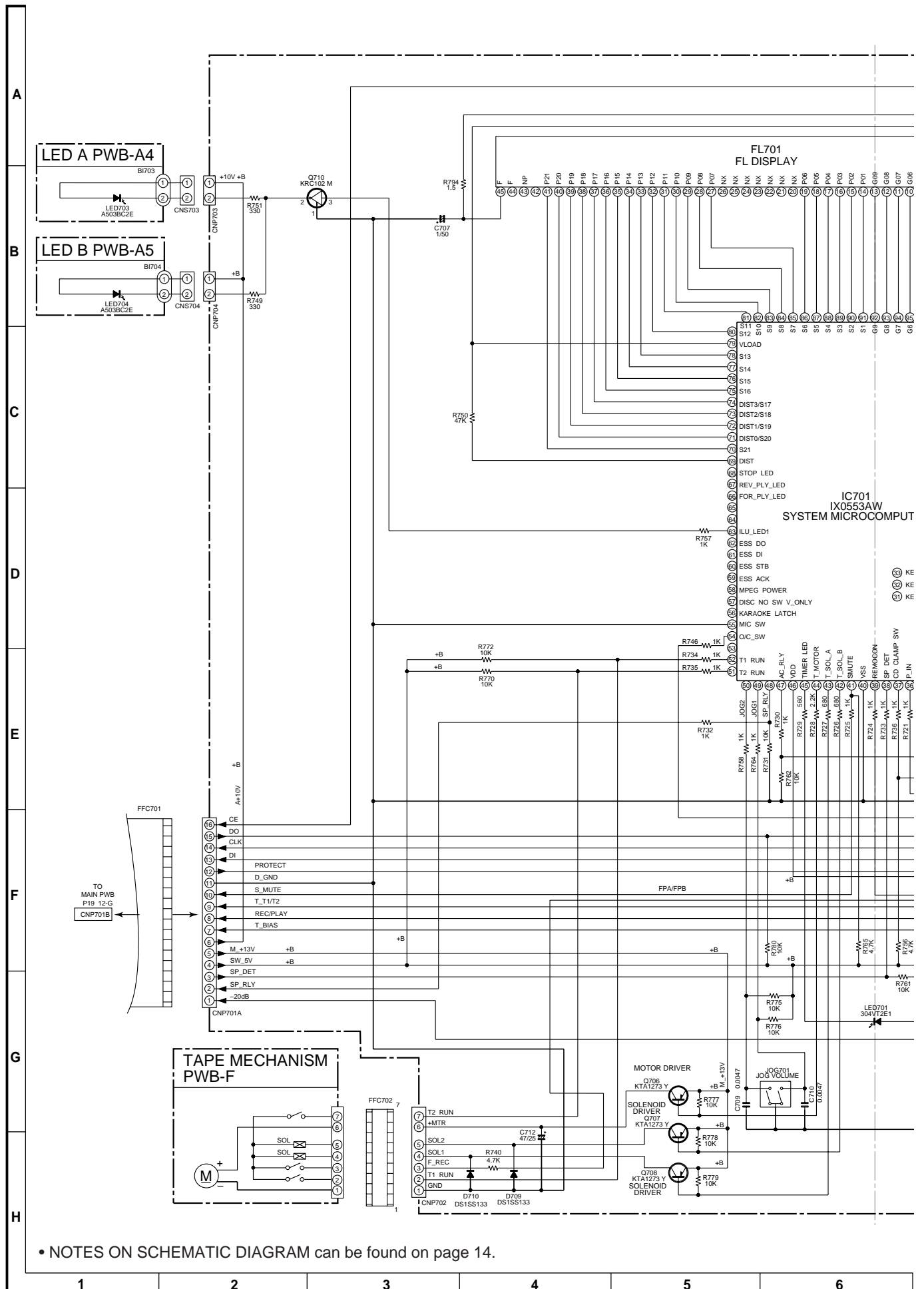
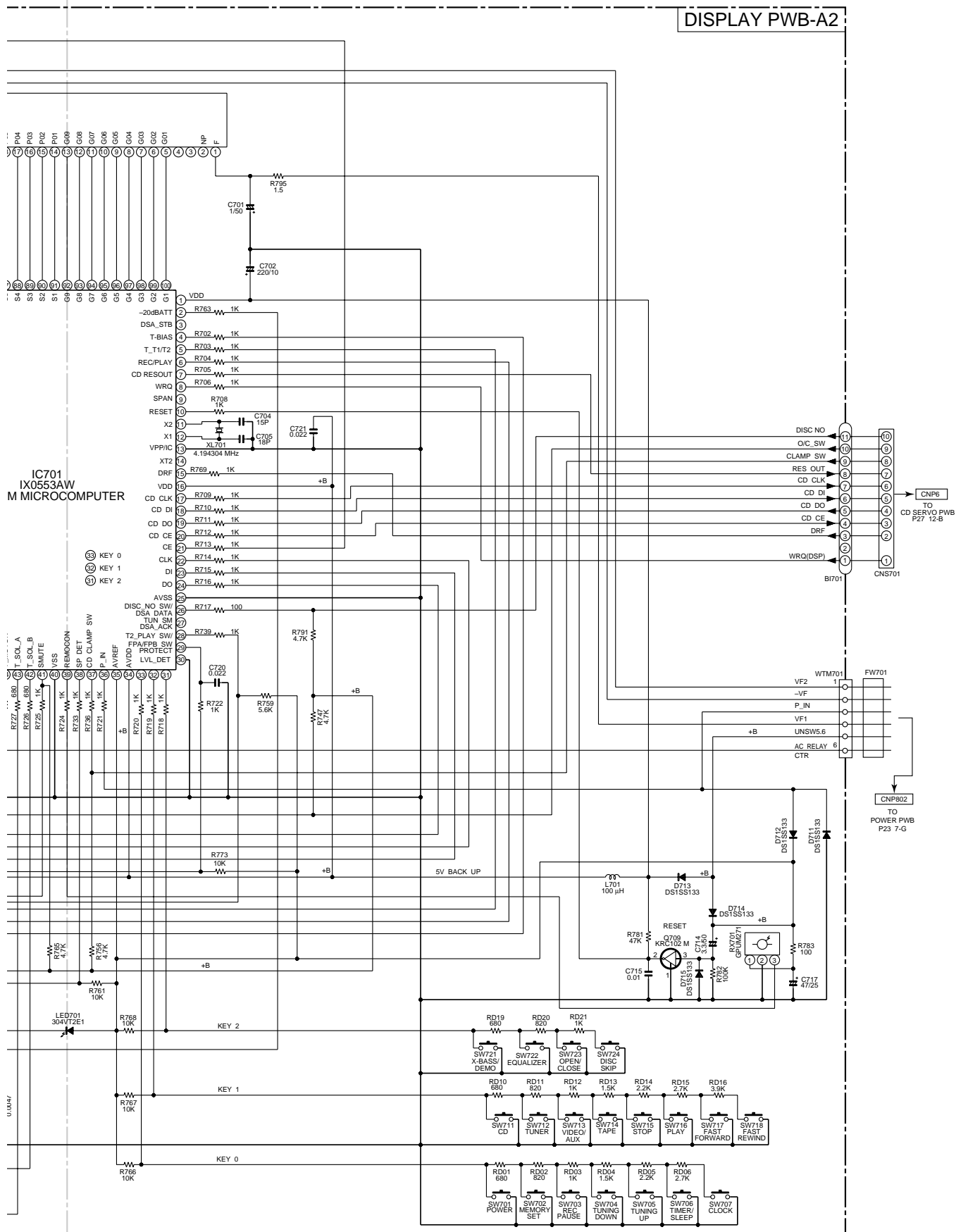
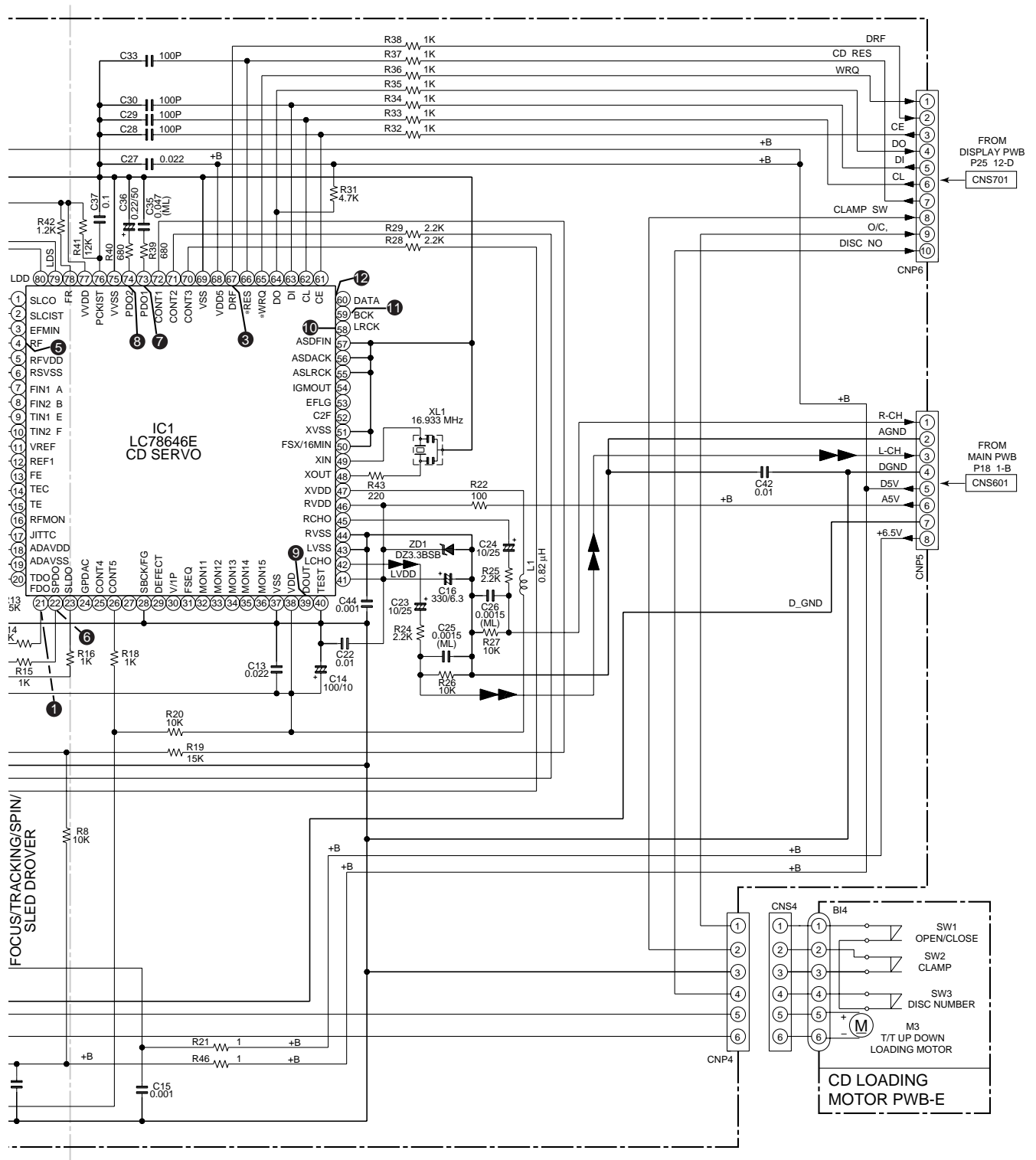


Figure 24 SCHEMATIC DIAGRAM (7/10)





**Figure 26 SCHEMATIC DIAGRAM (9/10)**



• The numbers 1 to 12 are waveform numbers shown in page 36.

7	8	9	10	11	12
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Figure 27 SCHEMATIC DIAGRAM (10/10)

- 28 -

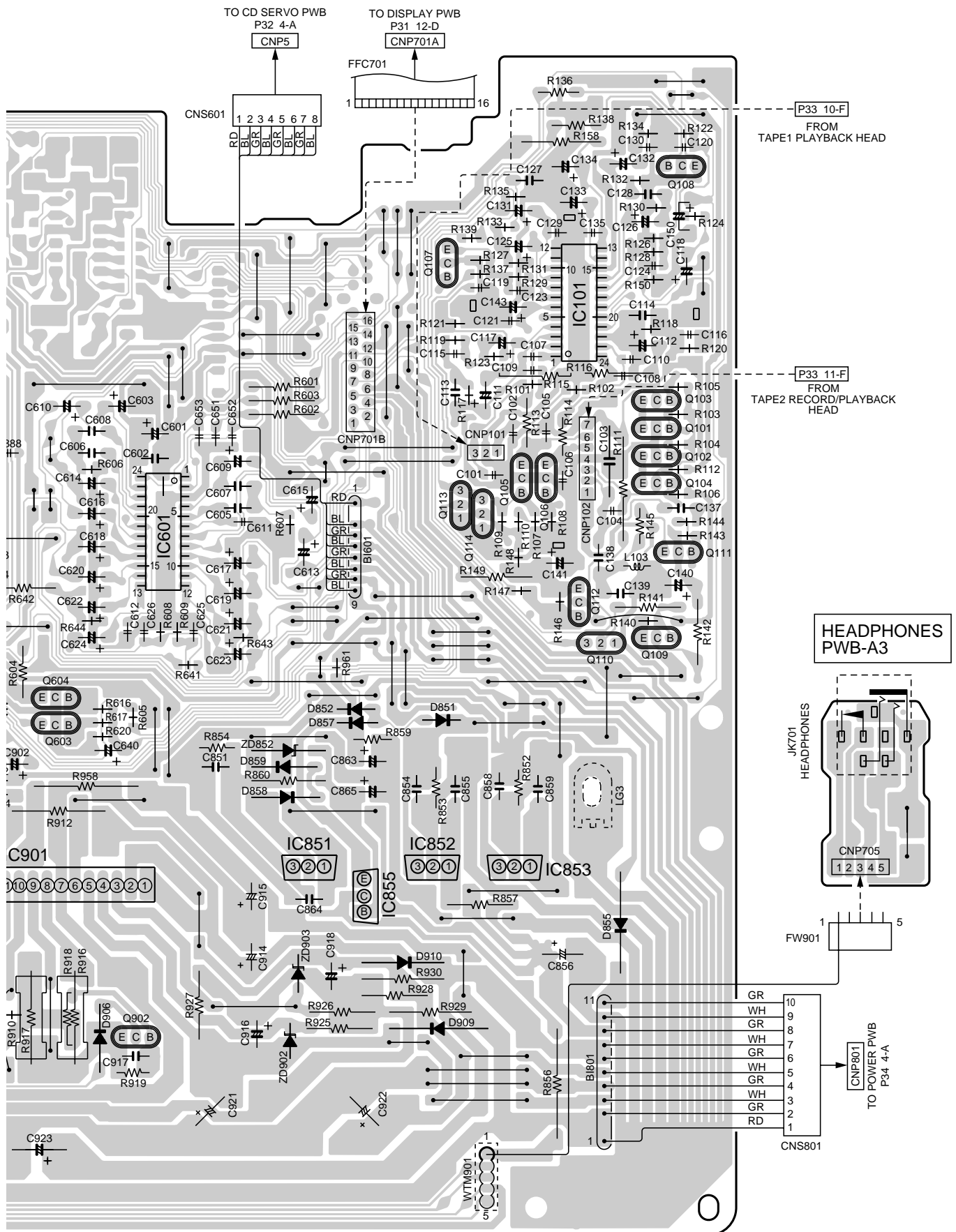


Figure 29 WIRING SIDE OF P.W.BOARD (2/7)



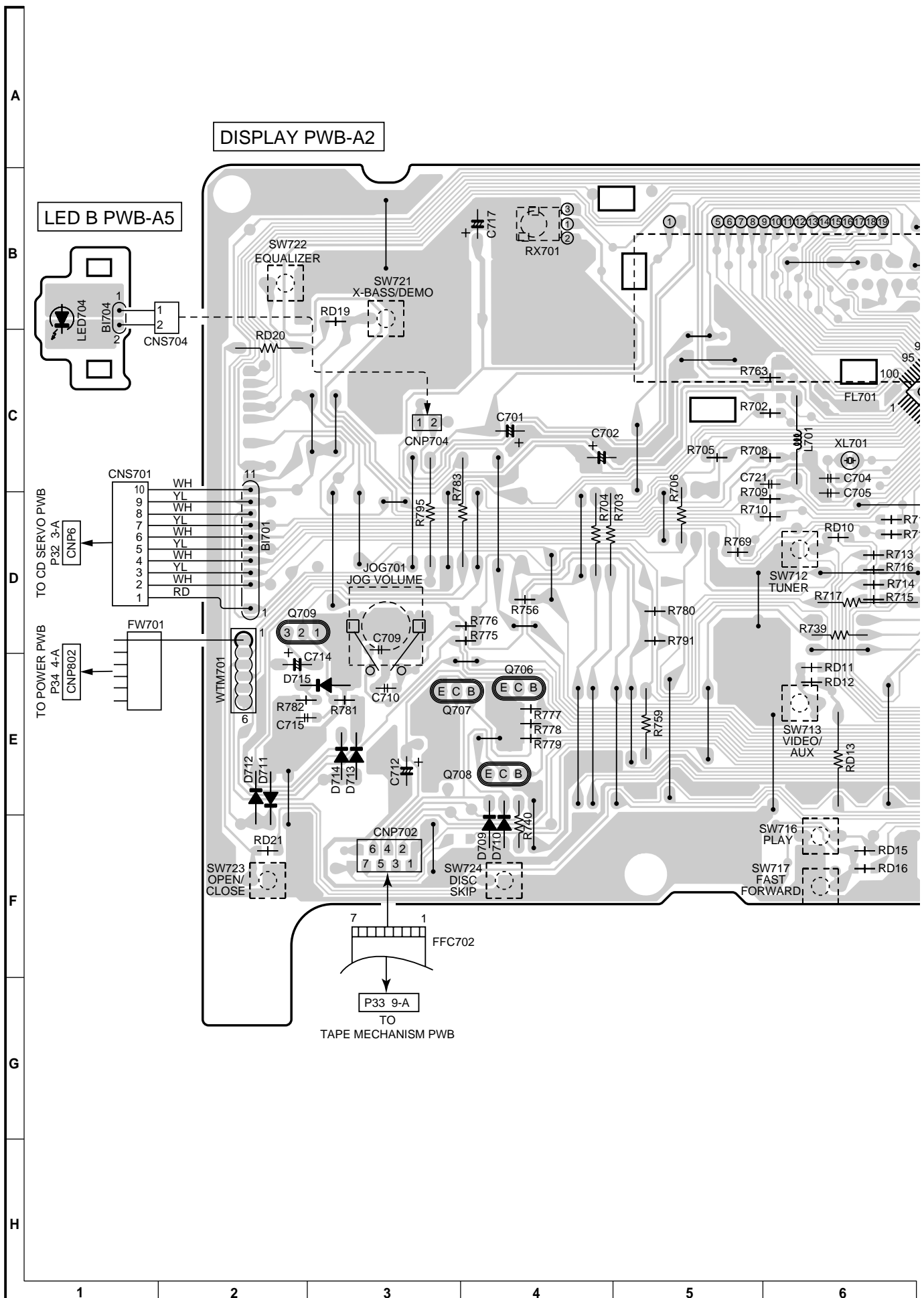
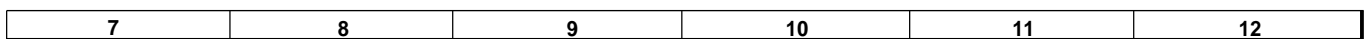


Figure 30 WIRING SIDE OF P.W.BOARD (3/7)



- 31 -

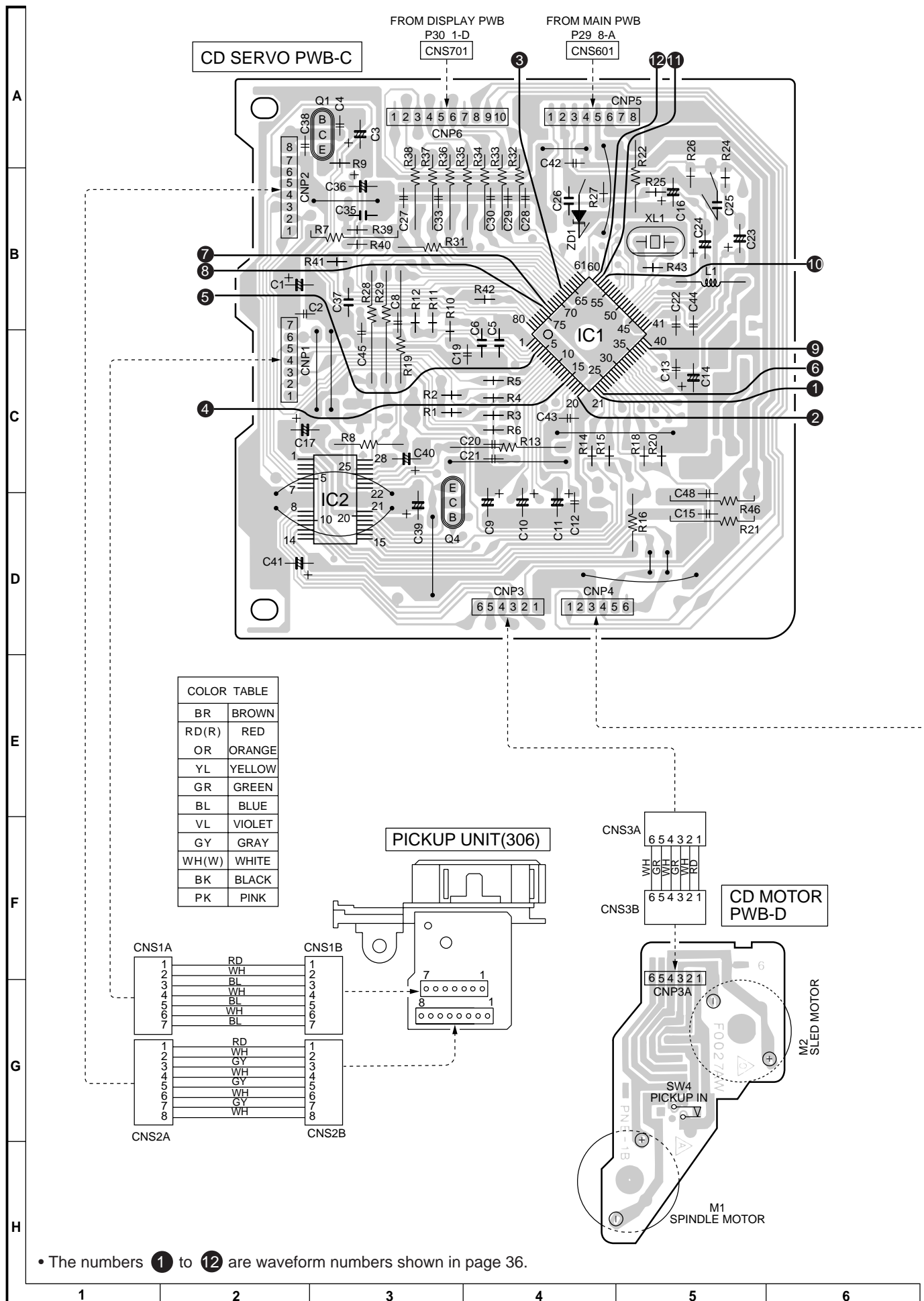


Figure 32 WIRING SIDE OF P.W.BOARD (5/7)

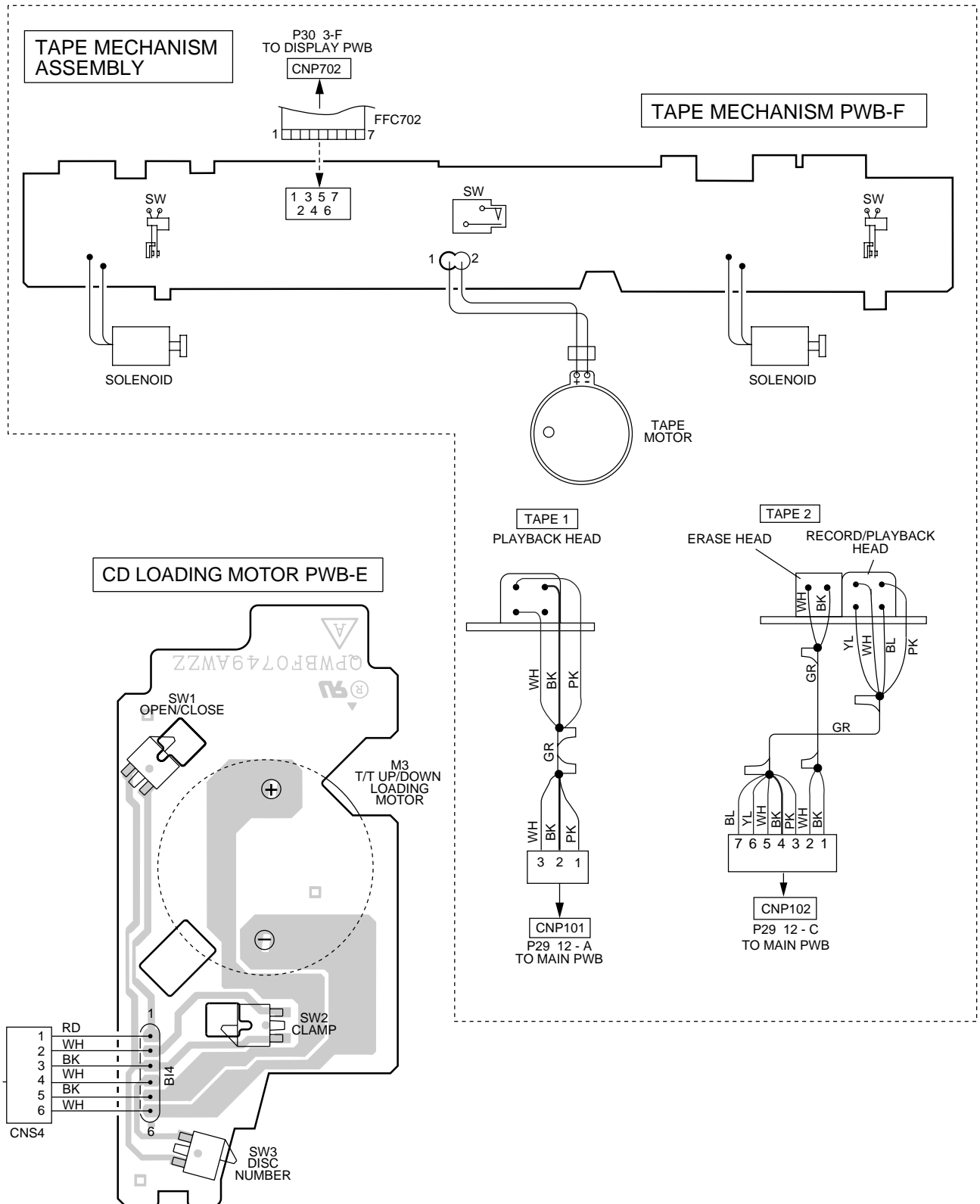


Figure 33 WIRING SIDE OF P.W.BOARD (6/7)

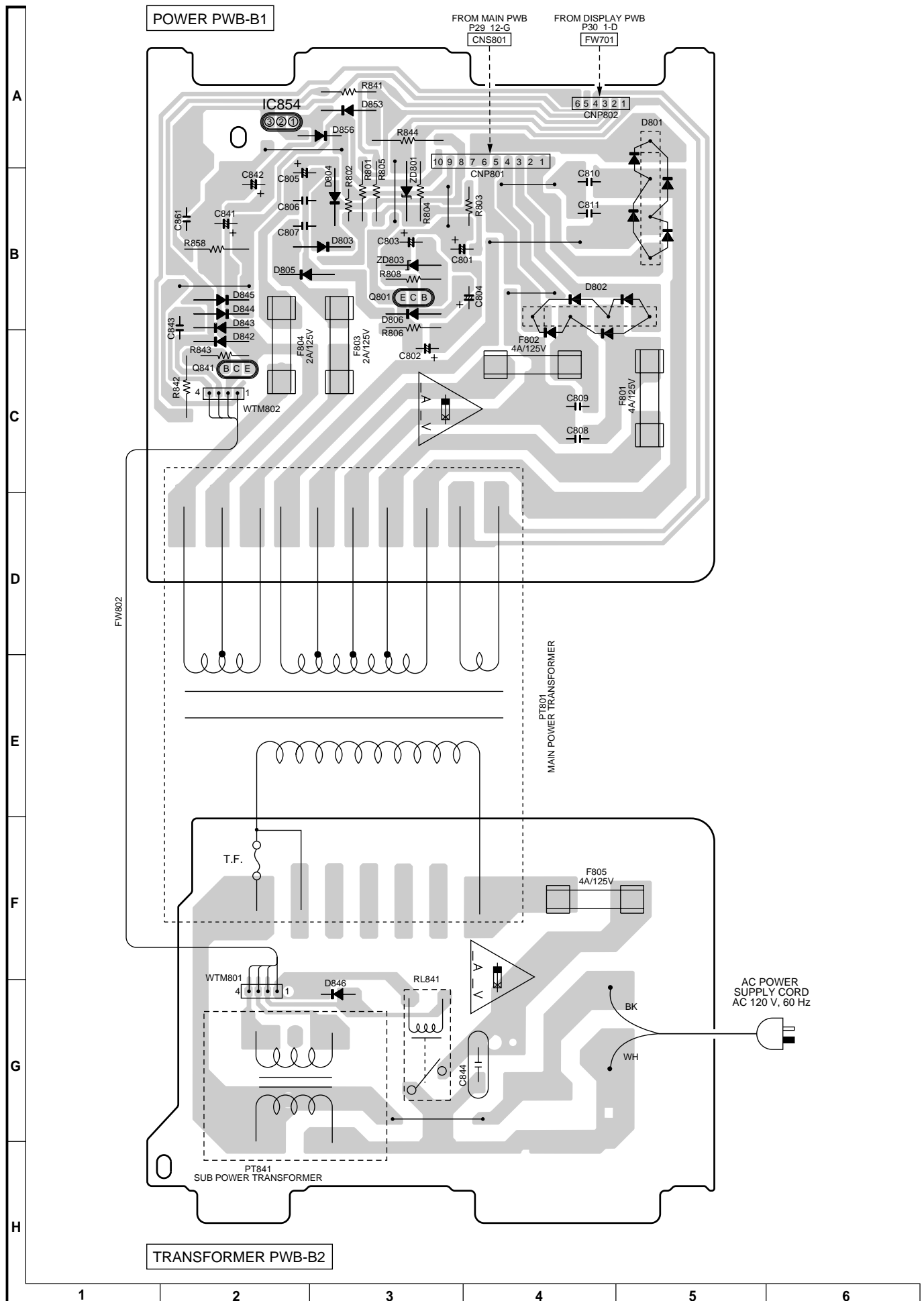


Figure 34 WIRING SIDE OF P.W.BOARD (777)

## VOLTAGE

IC101	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0.56 V
4	1.996 V
5	N.C.
6	1.303 V
7	0 V
8	0.587 V
9	3.54 V
10	3.46 V
11	0 V
12	0 V
13	7.03 V
14	4.2 V
15	0 V
16	3.46 V
17	0.587 V
18	0 V
19	2.68 V
20	NC
21	2.02 V
22	0.561 V
23	0 V
24	0 V

IC601	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	5 V
5	5 V
6	5 V
7	5 V
8	5 V
9	5 V
10	5 V
11	5 V
12	5 V
13	5 V
14	5 V
15	5 V
16	5 V
17	5 V
18	5 V
19	5 V
20	5 V
21	5 V
22	5 V
23	10.07 V
24	0 V

IC1	
PIN NO.	VOLTAGE
1	1.6 V
2	1.0 V
3	1.6 V
4	1.8 V
5	3.3 V
6	0 V
7	1.6 V
8	1.6 V
9	1.6 V
10	1.6 V
11	1.6 V
12	1.6 V
13	1.5 V
14	1.5 V
15	1.5 V
16	1.5 V
17	0.8 V
18	3.2 V
19	0 V
20	1.6 V
21	1.6 V
22	1.6 V
23	1.6 V
24	0 V
25	0 V
26	3.2 V
27	0 V
28	0 V
29	0 V
30	0 V
31	0 V
32	0 V
33	0 V
34	0 V
35	0 V
36	0 V
37	0 V
38	3.2 V
39	3.2 V
40	0 V
41	3.7 V
42	3.7 V
43	0 V
44	0 V
45	3.7 V
46	3.2 V
47	3.2 V
48	3.2 V
49	0 V
50	0 V
51	0 V
52	3.2 V
53	0 V
54	0 V
55	0 V
56	0 V
57	0 V
58	3.2 V
59	0 V
60	0 V
61	0 V
62	4.7 V
63	0 V
64	4.9 V
65	4.9 V
66	4.9 V
67	0 V
68	4.9 V
69	0 V
70	0 V
71	0 V
72	0 V
73	0 V
74	0 V
75	0 V
76	3.2 V
77	3.2 V
78	3.2 V
79	0 V
80	3.2 V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.85 V	51	4.93 V
2	4.78 V	52	4.93 V
3	0 V	53	N.C.
4	0 V	54	0 V
5	4.71 V	55	0 V
6	4.75 V	56	0 V
7	4.78 V	57	0 V
8	4.92 V	58	0 V
9	0 V	59	0 V
10	4.89 V	60	0 V
11	2.32 V	61	0 V
12	2.014 V	62	0 V
13	0 V	63	4.82 V
14	4.78 V	64	4.84 V (N.C.)
15	0 V	65	4.84 V (N.C.)
16	4.79 V	66	4.82 V
17	4.72 V	67	0 V
18	0.14 V	68	4.82 V
19	4.86 V	69	-27.4 V
20	0.1 V	70	-30.4 V
21	0 V	71	-30.4 V
22	0 V	72	-18.2 V
23	0 V	73	-30.4 V
24	5.02 V	74	-27.4 V
25	0 V	75	-21.1 V
26	4.93 V	76	-24.2 V
27	0 V	77	-27.3 V
28	5.08 V	78	-15.13 V
29	5.07 V	79	-30.5 V
30	0 V	80	-27.3 V
31	5.08 V	81	-18.23 V
32	3.31 V	82	-27.3 V
33	5.08 V	83	-24.2 V
34	4.79 V	84	-30.4 V
35	5.08 V	85	-21.2 V
36	1.41 V	86	-14.95 V
37	0 V	87	-30.4 V
38	5.09 V	88	-30.3 V
39	4.95 V	89	-30.3 V
40	0 V	90	-30.3 V
41	0 V	91	-27.2 V
42	13.23 V	92	-27.2 V
43	13.23 V	93	-27.1 V
44	13.23 V	94	-27.3 V
45	3.82 V	95	-27.3 V
46	4.79 V	96	-27.3 V
47	4.78 V	97	-26.6 V
48	4.54 V	98	-27.3 V
49	0 V	99	-27.3 V
50	4.93 V	100	-27.3 V

IC2	
PIN NO.	VOLTAGE
1	7.76 V
2	0 V
3	0 V
4	2 V
5	2 V
6	2 V
7	2 V
8	2 V
9	2 V
10	2 V
11	2 V
12	4.8 V
13	1.7 V
14	1.7 V
15	1.7 V
16	1.7 V
17	1.7 V
18	1.7 V
19	4 V
20	3.3 V
21	1.7 V
22	4.8 V
23	1.7 V
24	1.7 V
25	2.8 V
26	0 V
27	4.8 V
28	4.8 V

IC851	
PIN NO.	VOLTAGE
1	20.2 V
2	1.351 V
3	13.41 V

IC852	
PIN NO.	VOLTAGE
1	19.9 V
2	0 V
3	10.09 V

IC853	
PIN NO.	VOLTAGE
1	20.4 V
3	0 V
2	5 V

IC854	
PIN NO.	VOLTAGE
1	15.5 V
2	0.59 V
3	5.6 V

IC302	
PIN NO.	VOLTAGE
1	2.6 V
2	0 V
3	0 V
4	0 V
5	0 V
6	5.07 V
7	10.05 V
8	4.78 V
9	0 V
10	0 V
11	5.23 V
12	0 V
13	5.23 V
14	0 V
15	0 V
16	2.6 V
17	5.25 V
18	0 V
19	0 V
20	0.838 V
21	0 V
22	2.71 V

IC303	
PIN NO.	VOLTAGE
1	2.13 V
2	5.15 V
3	2.13 V
4	2.13 V
5	0 V
6	5.23 V
7	5.23 V
8	3.6 V
9	5.15 V
10	4.43 V
11	1.836 V
12	1.265 V
13	2.32 V
14	1.25 V
15	1.269 V
16	2.12 V
17	0 V
18	5.01 V
19	5.02 V
20	5.02 V
21	5.04 V
22	5.04 V
23	10.08 V
24	0 V

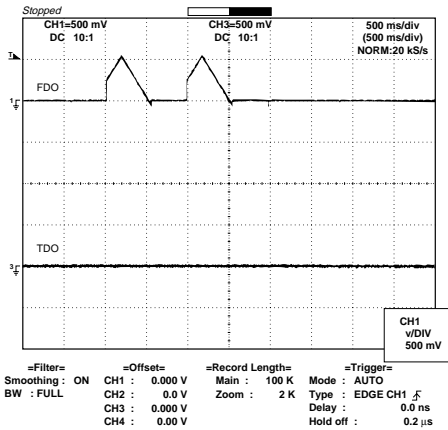
IC301	
PIN NO.	VOLTAGE
1	0.8 V
2	1.5 V
3	3.6 V
4	1.5 V
5	0 V
6	3.6 V
7	2.8 V
8	3.6 V
9	3.6 V

IC855	
PIN NO.	VOLTAGE
E	7.69 V
B	8.24 V
C	13.2V

IC901	
PIN NO.	VOLTAGE
1	58.8 V
2	27.8 V
3	15.9 V
4	-15.9 V
5	28.2 V
6	-58.7 V
7	0 V
8	0 V
9	0 V
10	0 V
11	0 V
12	-56.8 V
13	-56.8 V
14	0 V
15	0 V
16	-55.3 V
17	0 V
18	0 V

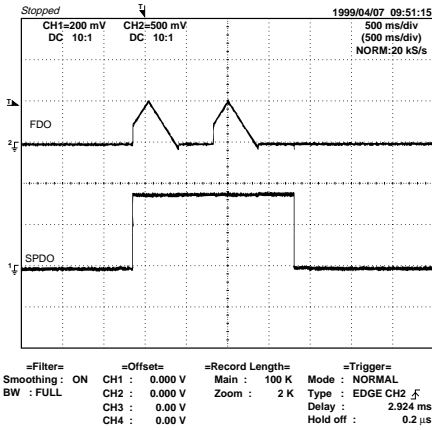
WAVEFORMS OF CD CIRCUIT

1 IC1 (21)



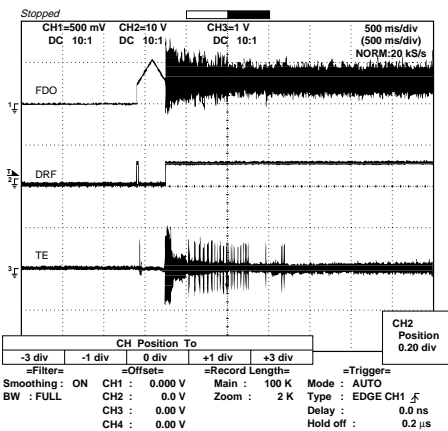
2 IC1 (20)

1 IC1 (21)



6 IC1 (22)

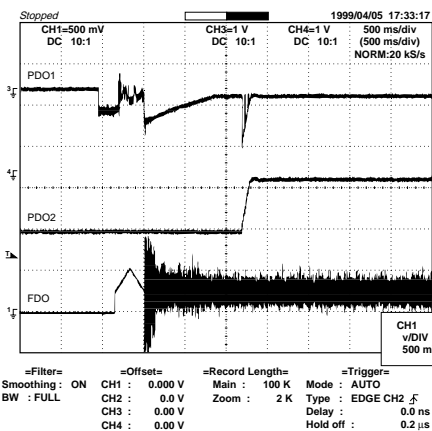
1 IC1 (21)



3 IC1 (67)

4 IC1 (15)

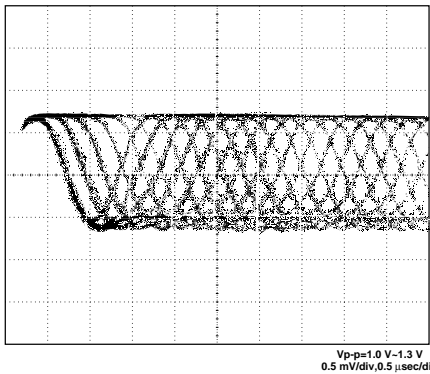
7 IC1 (73)



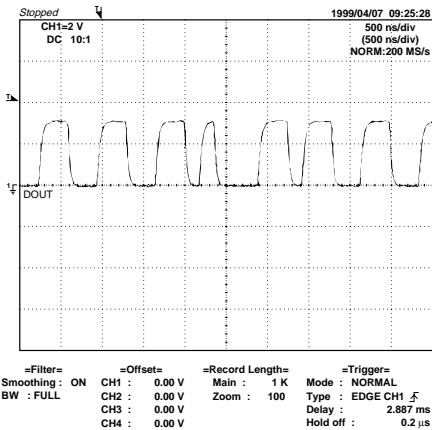
8 IC1 (74)

1 IC1 (21)

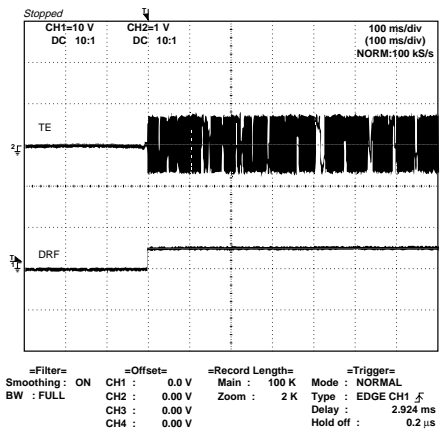
5 IC1 (4)



9 IC1 (39)



4 IC1 (15)

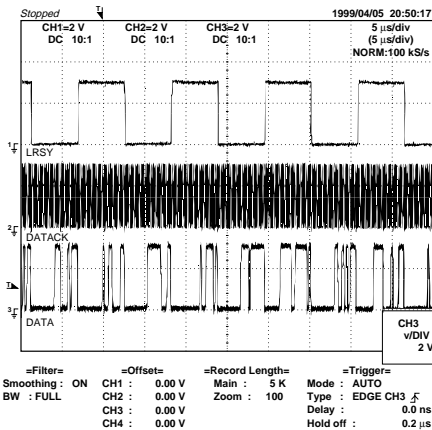


3 IC1 (67)

10 IC1 (58)

11 IC1 (59)

12 IC1 (60)





## TROUBLESHOOTING

### When the CD does not function

When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

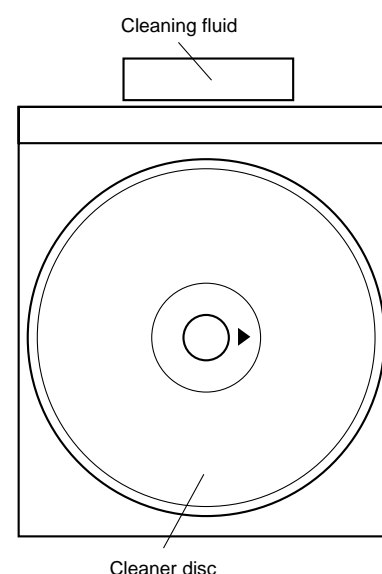
	Parts code
1. CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

#### HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continuous to turn, press the stop button.

#### CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.



### When a CD cannot be played

#### 1. "E-CD01" is displayed.

- (1) Check the power to IC1 (LC78646E), the presence of the clock signal (16.933 MHz) and the status of the RESET terminal (pin 66 on IC1).
- (2) Does the pickup move to the PICKUP-IN Switch (SW4) position?

If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

#### 2. Pressing the CD operation key is accepted, but playback does not occur.

- (1) Focus-HF system check
- (2) Tracking system check
- (3) Spin system check
- (4) PLL system check
- (5) Others

(1) Focus-HF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the OPEN/CLOSE switch (SW1) without inserting a disc, and try starting the playback operation.

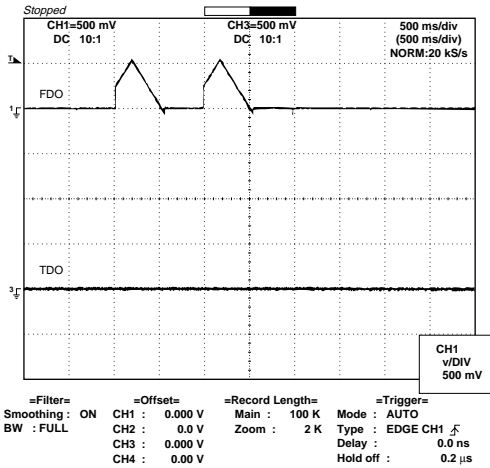
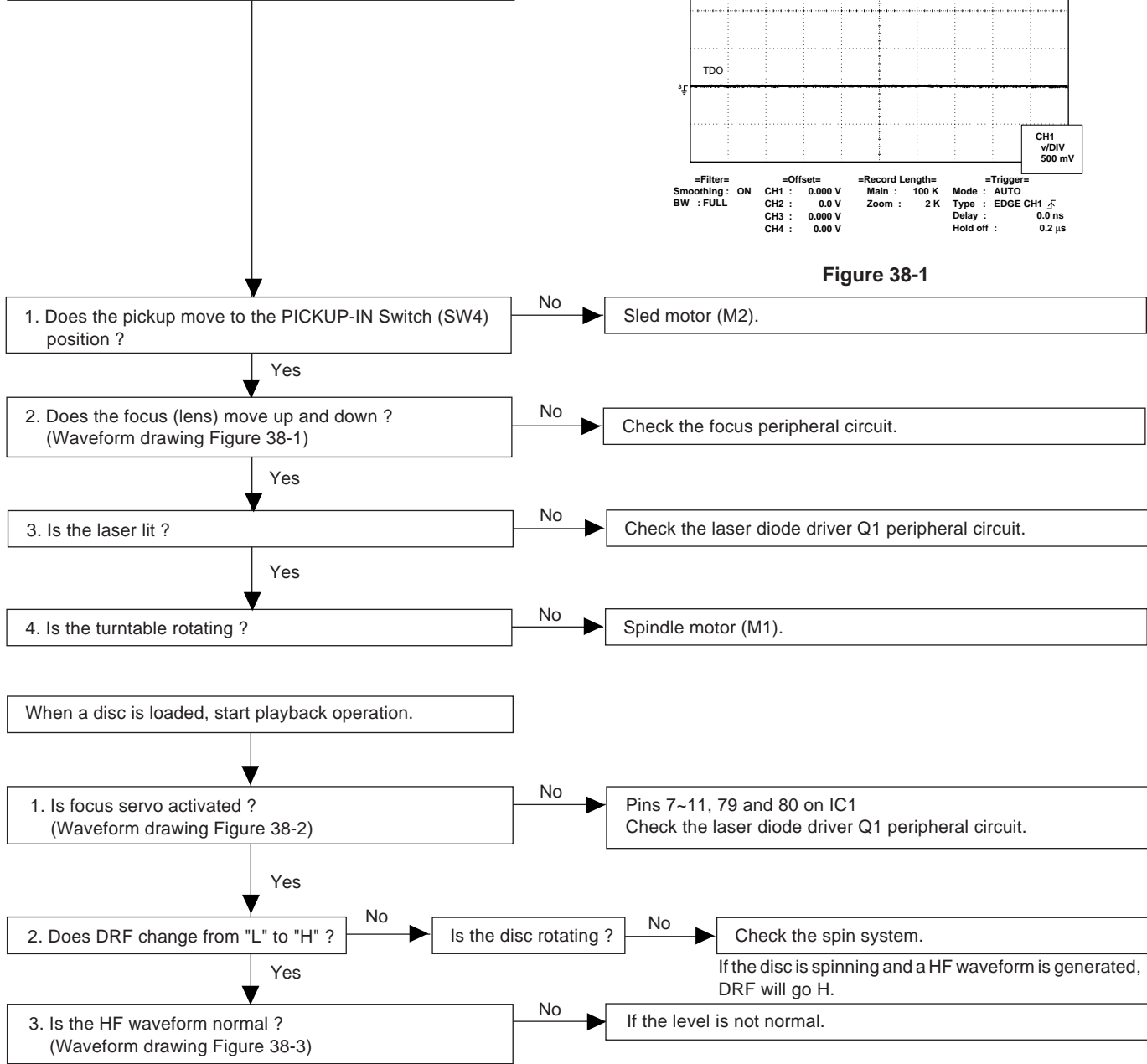


Figure 38-1

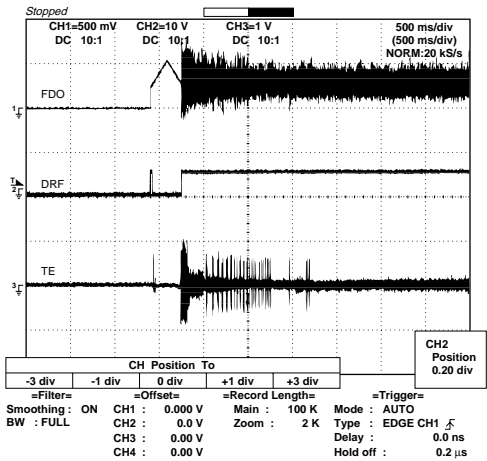


Figure 38-2

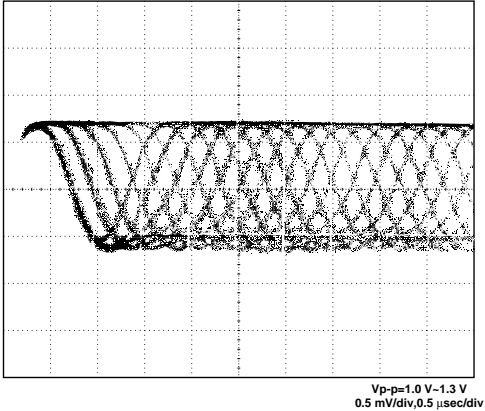


Figure 38-3

**(2) Tracking system check.**

Check the TE waveform at pin 15 on IC1.

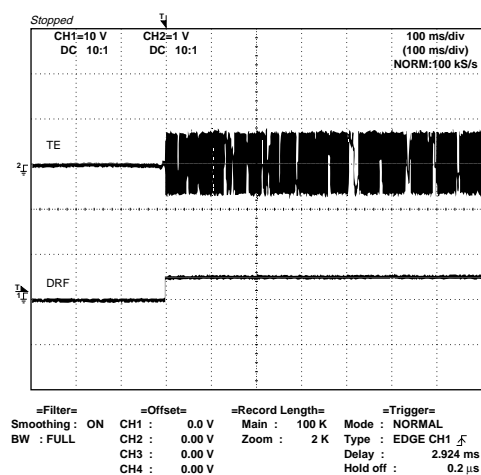
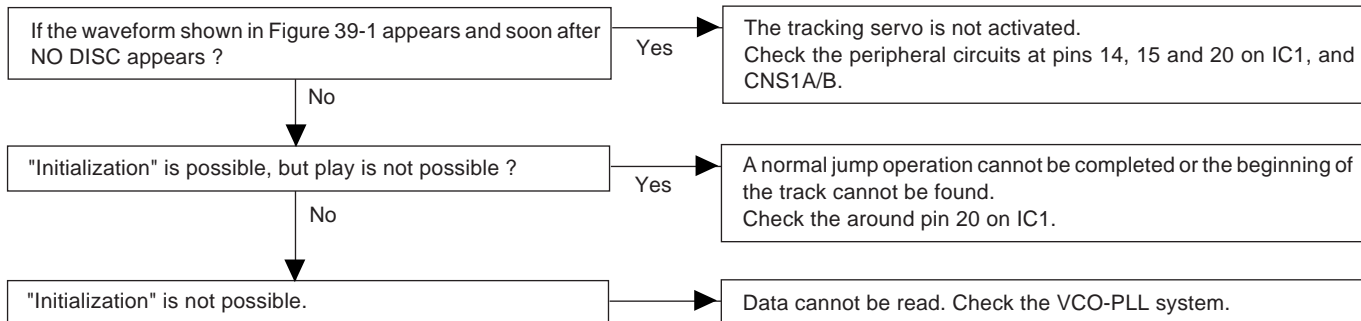


Figure 39-1

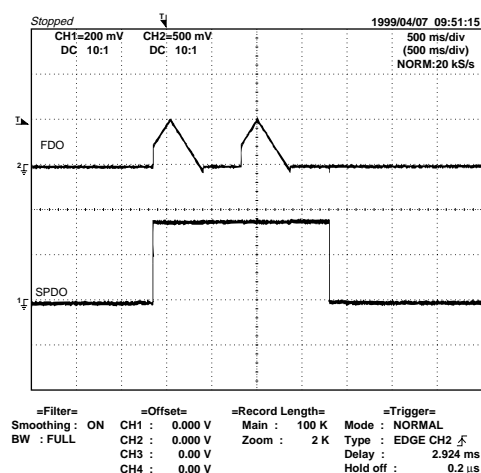
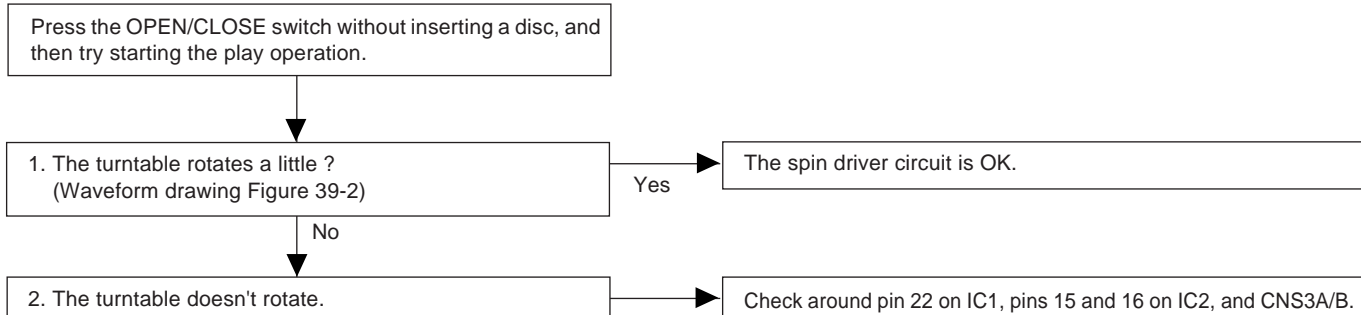
**(3) Spin system check.**

Figure 39-2

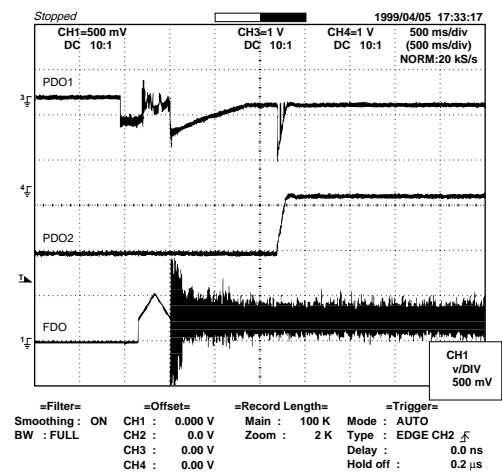
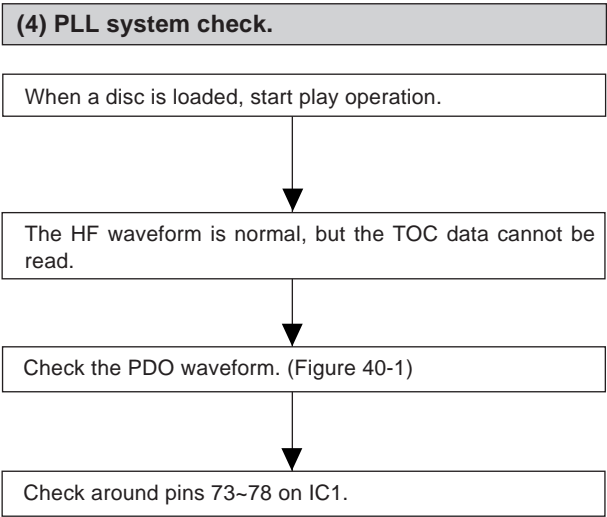


Figure 40-1

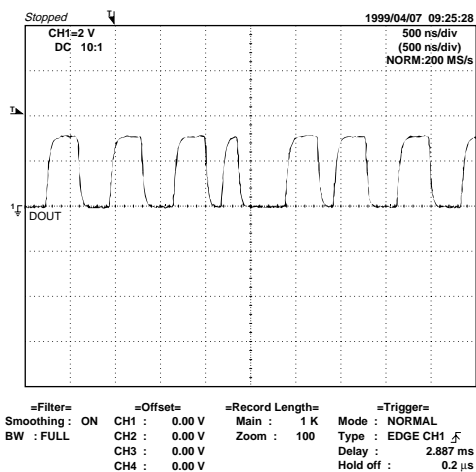
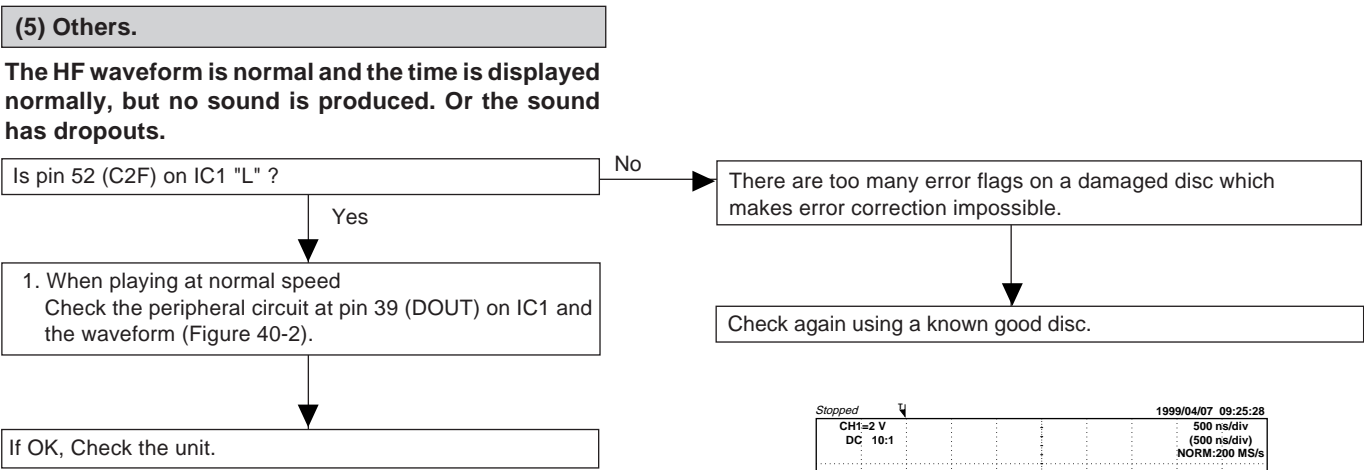


Figure 40-2

## FUNCTION TABLE OF IC

## IC1 VHiLC78646E-1: CD Servo (LC78646E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
1	SLCO	Output	—	For slice level control.	Control output.
2	SLCIST	Input	—		Resistor connection terminal for SLCO output current setting.
3	EFMIN	Input	—		RF signal input terminal.
4	RF	Output	—	RF signal monitor terminal.	
5	RFVDD	Input	—	RF power terminal.	
6	RFVSS	—	—	RF earth terminal. To be connected to 0 V.	
7	FIN1	Input	—	A+C signal input terminal.	
8	FIN2	Input	—	B+D signal input terminal.	
9	TIN1	Input	—	E signal input terminal.	
10	TIN2	Input	—	F signal input terminal.	
11	VREF	Output	RFVDD/2	VREF voltage output terminal.	
12	REF1	Input	—	Reference supply setting terminal.	
13*	FE	Output	ZHI	FE signal monitor terminal.	
14	TEC	Output	—	LPF capacitor connection terminal for TE signal.	
15*	TE	Output	ZHI	TE signal monitor terminal.	
16*	RFMON	Output	ZHI	RF internal signal monitor terminal.	
17	JITTC	—	—	Capacitor connection terminal for jitter detection.	
18	ADAVDD	Input	—	Power terminal for servo A/D, D/A.	
19	ADAVSS	—	—	Earth terminal for servo A/D, D/A. To be connected to 0 V.	
20	TDO	Output	ADAVDD/2	Output terminal for tracking control. D/A output.	
21	FDO	Output	ADAVDD/2	Output terminal for focus control. D/A output.	
22	SPDO	Output	ADAVDD/2	Output terminal for spindle control. D/A output.	
23	SLDO	Output	ADAVDD/2	Output terminal for sled control. D/A output.	
24*	GPDAC	Output	ADAVDD/2	Servo D/A general-purpose output terminal.	
25*	CONT4	Input/Output	Input Mode	General-purpose I/O terminal 4.	Controlled by commands from the microcomputer. When not used, set them as input terminals and connect to 0 V, or set them as output terminals and leave open.
26	CONT5	Input/Output	Input Mode	General-purpose I/O terminal 5.	
27*	SBCK/CONT6	Input/Output	Input Mode	General-purpose I/O terminal 6 or Subcode reading clock input terminal.	
28	SBCK/FG	Input	—	Subcode reading clock input terminal/FG signal input terminal/external emphasis setting terminal. Terminal functions are set by commands. When not used, connect to 0 V.	
29*	DEFECT	Output	L	Defect terminal.	
30*	V/*P	Output	H	Auto switching monitor output terminal for rough servo phase control. “H”: rough servo, “L”: phase servo.	
31*	FSEQ	Output	L	Sync signal detection output terminal. The status changes to “H” when the sync signal detected in EFM and the sync signal of internal generation are identified.	
32*	MONI1	Output	L	Internal signal monitor terminal 1.	
33*	MONI2	Output	L	Internal signal monitor terminal 2.	
34*	MONI3	Output	L	Internal signal monitor terminal 3.	
35*	MONI4	Output	L	Internal signal monitor terminal 4.	
36*	MONI5	Output	L	Internal signal monitor terminal 5.	
37	VSS	—	—	Digital system earth terminal. To be connected to 0 V.	
38	VDD	Input	—	Digital system power terminal.	
39*	DOUT	Output	L	Digital OUT output terminal. (EIAJ format)	
40	TEST	Input	L	Input terminal for test. To be connected to 0 V.	
41	LVDD	Input	—	Left channel D/A converter	Power supply for Left channel.
42	LCHO	Output	LVDD/2		Left channel output.
43	LVSS	—	—		GND for Left channel. Must be connected to 0 V.

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## CD-E700/CD-E77

### IC1 VHiLC78646E-1: CD Servo (LC78646E) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	RVSS	—	—	Right channel D/A converter	GND for Right channel. Must be connected to 0 V.
45	RCHO	Output	LVDD /2		Right channel output.
46	RVDD	Input	—		Power supply for Right channel.
47	XVDD	Input	—	Crystal Oscillator	Power supply for crystal oscillator.
48	XOUT	Output	—		Connected for the 33.8688 MHz crystal oscillator ciement.
49	XIN	Input	—		
50	FSX/16MIN	Input/Output	Input	7.35 kHz Synchronization signal monitor port. or Clock input port for Digital filter & D/A	
51	XVSS	—	—	Crystal Oscillator	GND for crystal oscillator. Must be connected to 0 V.
52*	C2F	Output	H	C2 FLAG monitor port.	
53*	EFLG	Output	L	C1, C2 error corrected monitor port.	
54*	16MOUT	Output	Clock	16.9344 MHz output port.	
55	ASLRCK	Input	—	Anti-shock	Word clock input port. (If this port does not use, must be connect to 0 V.)
56	ASDACK	Input	—		Bit clock input port. (If this port does not use, must be connect to 0 V.)
57	ASDFIN	Input	—		Left/Right channel data input port. (If this port does not use, must be connect to 0 V.)
58*	LRCK	Output	L	Digital data	Word clock output port.
59*	BCK	Output	L		Bit clock output port.
60*	DATA	Output	L		Left/Right channel data output port.
61	CE	Input	—	Microcomputer Interface	Chip enable signal input port.
62	CL	Input	—		Data transfer clock input port.
63	DI	Input	—		Data input port.
64	DO	Output	(H)		Data output port. (N-ch. open drain output.)
65	*WRQ	Output	H		Interruption signal output.
66	*RES	Input	—	Chip reset signal input port. This port must be set LOW after first applied power on.	
67	DRF	Output	L	Focus detection output port.	
68	VDD5	Input	—	Power supply for Microprocessor.	
69	VSS	—	—	GND for digital circuit. Must be connected to 0 V.	
70	CONT3	Input/Output	Input	General purpose port 1.	Controlled with serial data command from micro-computer. When not used, General purpose input/output terminal 7. set it as the input terminal and open it by connecting to 0 V, or set it as the output terminal and open it.
71	CONT2	Input/Output	Input	General purpose port 2.	
72	CONT1	Input/Output	Input	General purpose port 3.	
73	PDO1	Output	—	PLL	Internal VCO control phase comparator output port 1.
74	PDO2	Output	Input		Internal VCO control phase comparator output port 2.
75	VVSS	—	—		GND for internal VCO. Must be connected to 0 V.
76	PCKIST	Input	—		PDO output current adjustment resistor connection port.
77	VVDD	Input	—		Power supply for internal VCO.
78	FR	Input	—		VCO frequency range adjustment port.
79	LDS	Input	—	LASER power detected signal input port.	
80	LDD	Output	—	LASER power control signal output port.	

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

Be sure to supply the same potential to each power terminal. (VVDD, ADAVDD, VDD, LVDD, RVDD, XVDD)

Terminal witch is controlled by the power terminal (VDD5 V) for a microcomputer interface :

CE (61 pin), CL (62 pin), DI (63 pin), DO (64 pin), WRQ (65 pin), RES (66 pin), DRF (67 pin)

## IC1 VHLC78646E-1: CD Servo (LC78646E)

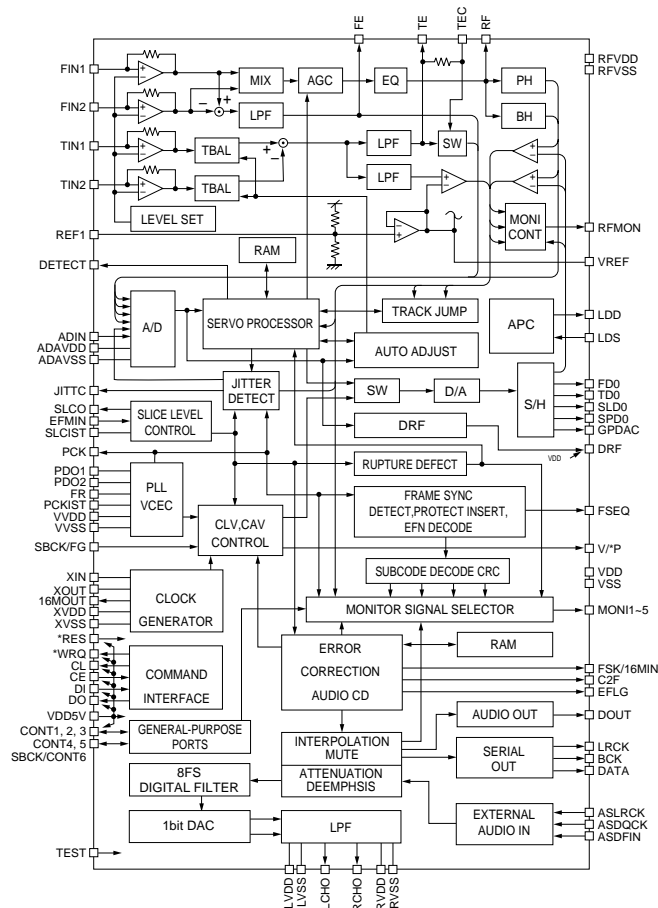
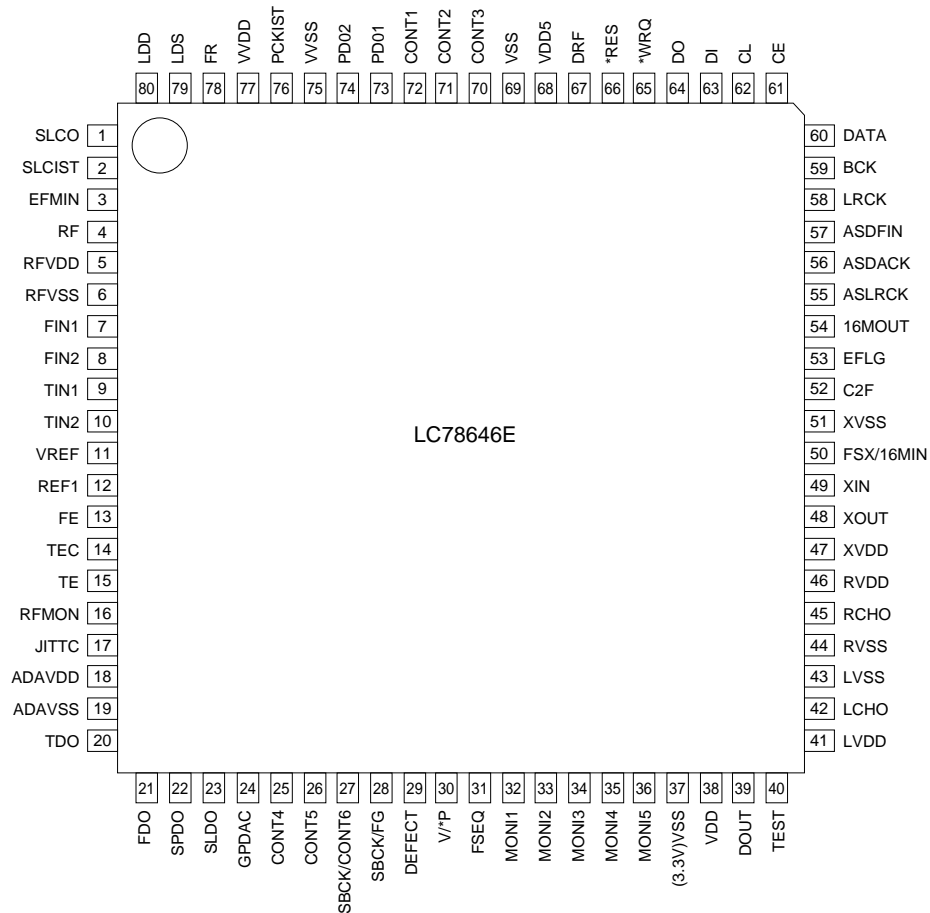
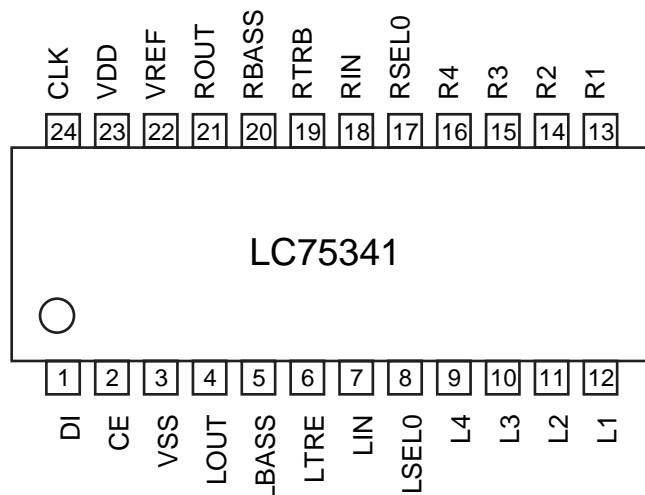


Figure 43 BLOCK DIAGRAM OF IC



- 44 -



**IC701 RH-iX0553AWZZ: System Microcomputer (IX0553AW) (1/2)**

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	Input	(+) Power supply.
2	P37	-20dBATT	Output	-20dB Attenuator.
3*	P36	SUB_CE	Output	MP3 sub microcomputer.
4	P35	T_BIAS	Output	Tape record bias.
5	P34	T_T1/T2	Output	Tape T1/T2 change.
6	P33	T_REC/PLY	Output	Tape REC/PLAY change.
7	P32	CD_RESOUT	Output	CD DSP reset.
8	P31	CD WRQ	Input	CD write read request..
9*	P30	NO USE	Input	Connect to GND.
10	RESET	RESET	Input	Reset.
11	X2	X2	Output	Main clock.
12	X1	X1	Input	Main clock.
13	VPP/IC	VPP/IC	—	GND
14*	XT2	XT2	—	Open
15	P04	CD_DRF	Input	CD DRF level detection.
16	VDD	VDD	Input	(+) Power supply.
17	P27	CD_CLK	Output	CD DSP clock.
18	P26	CD_DI	Output	CD DSP command.
19	P25	CD_DO	Input	CD DSP CODE Q out.
20	P24	CD_CE	Output	CD DSP CE output.
21	P23	CE	Output	CE output.
22	P22	CLK	Output	Clock output.
23	P21	DI	Output	Data output.
24	P20	DO	Input	Data input.
25	AVSS	AVSS	—	Analog ground.
26	P17	D.NO SW	Input	CD DISC No. SW
27*	ANI6	NO USE	Input	Connect to GND.
28	ANI5	PLAY2/FPA/FPB SW	Input	Tape F.P A/B SW & PLAY 2 SW.
29	ANI4	PROTECT	Input	Power abnormal detect.
30	ANI3	LVL_DET	Input	Speaker output level detect.
31-33	ANI2-ANI0	KEY 2-KEY 0	Input	Key input.
34	AVDD	AVDD	Input	Analog VDD.
35	AVREF	AVREF	—	Analog ref voltage.
36	INTP3	P_IN	Input	Power failure detect.
37	P02	CLAMP SW	Input	CD CLAMP SW.
38	INTP1	SP_DET	Input	Speaker abnormal detect.
39	INTP0	REMOCON	Input	Remocon input.
40	VSS	VSS	—	Ground voltage.
41	P74	SMUTE	Output	System mute control.
42	P73	T_SOL B	Output	Tape 2 solenoid control.
43	P72	T_SOL A	Output	Tape 1 solenoid control.
44	P71	T_MOTOR	Output	Tape motor control.
45	P70	TIMER LED	Output	Timer LED control.
46	VDD	VDD	Input	(+) Power supply.
47	P127	AC_RLY	Output	AC relay control.
48	P126	SP_RLY	Output	Speaker relay control.
49	P125	JOG 1	Input	Volume jog input 1.
50	P124	JOG 2	Input	Volume jog input 2.
51	P123	T 2_RUN	Input	TAPE 2 RUN PULSE input.
52	P122	T 1_RUN	Input	TAPE 1 RUN PULSE input.
53*	P121	MONST LED	Output	Monster LED.

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## CD-E700/CD-E77

### IC701 RH-iX0553AWZZ: System Microcomputer (IX0553AW) (2/2)

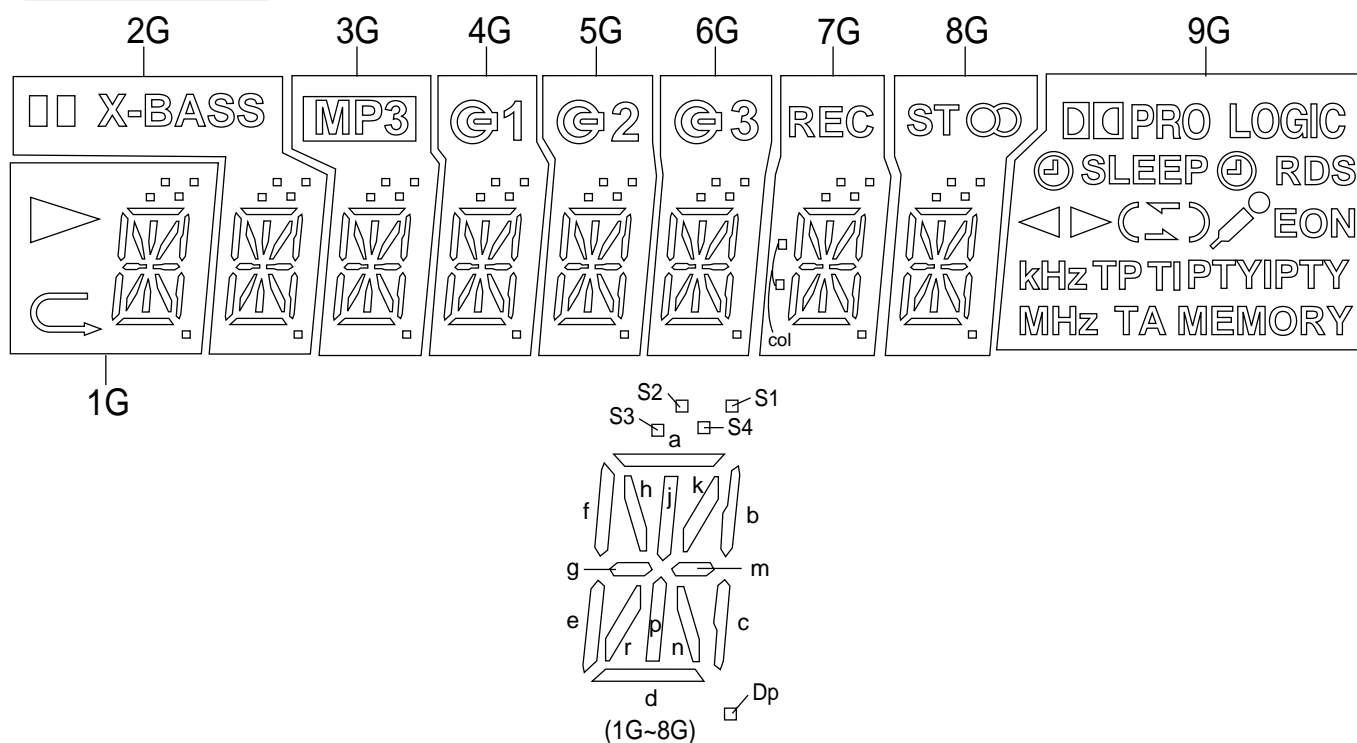
Pin No.	Port Name	Terminal Name	Input/Output	Function
54	P120	O/C SW	Input	CD OPEN/CLOSE SW.
55	P117	MIC SW	Input	Mic switch input.
56*	P116	KARA_LATCH	Output	Karaoke latch. (When not used. Connect to 0 V.)
57*	P115	NO USE	Output	Open.
58*	P114	NO USE	Output	Open.
59*	P113	NO USE	Output	Open.
60*	P112	NO USE	Input	Open.
61*	P111	NO USE	Output	Open.
62*	P110	NO USE	Input	Open.
63	P107	ILU_LED1	Output	Illumination LED1.
64*	P106	ILU_LED2	Output	Illumination LED2.
65*	P105	ILU_LED3	Output	Illumination LED3.
66*	P104	FOR PLY_LED	Output	Forward play LED.
67*	P103	REV PLY_LED	Output	Reverse play LED.
68*	P102	STOP_LED	Output	Stop LED.
69	FIP30	DIST	Input	Distination input.
70	FIP29	S21	Output	FL segment driver.
71-74	P97-P94	DIST 0-DIST 3	Output	Distination output.
75-78	FIP24-FIP21	S16-S13	Output	FL segment driver.
79	VLOAD	VLOAD	Input	FL driver power supp. -30 V
80-91	FIP20-FIP9	S12-S1	Output	FL segment driver.
92-100	FIP8-FIP0	G9-G1	Output	FL grid driver.

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## FL DISPLAY

FL701 VVKNA09SS29-1

## GRID ASSIGNMENT



## ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G
P1	▷	X-BASS	MP3	G1	G2	G3	col	ST	PTYI
P2	S1	S1	S1	S1	S1	S1	S1	S1	—
P3	S2	S2	S2	S2	S2	S2	S2	S2	TA
P4	S3	S3	S3	S3	S3	S3	S3	S3	TP
P5	S4	S4	S4	S4	S4	S4	S4	S4	RDS
P6	a	a	a	a	a	a	a	a	TI
P7	b	b	b	b	b	b	b	b	▷
P8	k	k	k	k	k	k	k	k	◁
P9	j	j	j	j	j	j	j	j	MEMORY
P10	h	h	h	h	h	h	h	h	PTY
P11	f	f	f	f	f	f	f	f	)
P12	m	m	m	m	m	m	m	m	(
P13	d	d	d	d	d	d	d	d	MHz
P14	g	g	g	g	g	g	g	g	⏏
P15	p	p	p	p	p	p	p	p	kHz
P16	e	e	e	e	e	e	e	e	EON
P17	n	n	n	n	n	n	n	n	PRO LOGIC
P18	r	r	r	r	r	r	r	r	⏏
P19	c	c	c	c	c	c	c	c	(L) ⏏
P20	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp	(R) ⏏
P21	◁	□□	—	—	—	—	REC	ST	SLEEP

**CD-E700/CD-E77**

— MEMO —

# SHARP PARTS GUIDE

## MINI COMPONENT SYSTEM

### MODEL CD-E700

CD-E700 Mini Component System consisting of CD-E700 (main unit) and CP-E700 (speaker system).

## MINI COMPONENT SYSTEM

### MODEL CD-E77

CD-E77 Mini Component System consisting of CD-E77 (main unit) and CP-E77 (speaker system).

#### "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

- |                 |                |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. No.    |
| 3. PART NO.     | 4. DESCRIPTION |

★ MARK: SPARE PARTS-DELIVERY SECTION

#### For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,  
Please call Toll-Free;  
1-800-BE-SHARP

## Explanation of capacitors/resistors parts codes

### Capacitors

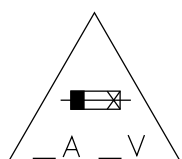
VCC ..... Ceramic type  
 VCK ..... Ceramic type  
 VCT ..... Semiconductor type  
 VC •• MF ..... Cylindrical type (without lead wire)  
 VC •• MN ..... Cylindrical type (without lead wire)  
 VC •• TV ..... Square type (without lead wire)  
 VC •• TQ ..... Square type (without lead wire)  
 VC •• CY ..... Square type (without lead wire)  
 VC •• CZ ..... Square type (without lead wire)  
 VC ..... J .. The 13th character represents capacity difference.  
 ("J"  $\pm 5\%$ , "K"  $\pm 10\%$ , "M"  $\pm 20\%$ , "N"  $\pm 30\%$ ,  
 "C"  $\pm 0.25$  pF, "D"  $\pm 0.5$  pF, "Z"  $+80-20\%$ .)

If there are no indications for the electrolytic capacitors, error is  $\pm 20\%$ .

### Resistors

VRD ..... Carbon-film type  
 VRS ..... Carbon-film type  
 VRN ..... Metal-film type  
 VR •• MF ..... Cylindrical type (without lead wire)  
 VR •• MN ..... Cylindrical type (without lead wire)  
 VR •• TV ..... Square type (without lead wire)  
 VR •• TQ ..... Square type (without lead wire)  
 VR •• CY ..... Square type (without lead wire)  
 VR •• CZ ..... Square type (without lead wire)  
 VR ..... J .. The 13th character represents error.  
 ("J"  $\pm 5\%$ , "F"  $\pm 1\%$ , "D"  $\pm 0.5\%$ .)

If there are no indications for other parts, the resistors are  $\pm 5\%$  carbon-film type.



CAUTION:FOR CONTINUED  
 PROTECTION AGAINST FIRE  
 HAZARD, REPLACE ONLY WITH  
 SAME TYPE F801, F802 4A, 125V /  
 F803, F804 2A, 125V / F805 4A, 125V FUSES

ATTENTION:POUR ASSURER  
 UNE LONGUE PROTECTION CONTRE  
 UNINCENDIE, REMPLACER SEULEMENT  
 PAR UN FUSIBLE DE  
 TYPE F801, F802 4A, 125V / F803,  
 F804 2A, 125V / F805 4A, 125V

#### NOTE:

Parts marked with "△" are important for maintaining the safety of the set.

Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

## CD-E700/CD-E77

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
<b>CD-E700/CD-E77</b>				
<b>INTEGRATED CIRCUITS</b>				
IC1	VHILC78646E-1	J	AY	CD Servo,LC78646E
IC2	VHILA6574H+-1	J	AN	Focus/Tracking/Spin/Sled Driver, LA6574H
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC301	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J	AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC601	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC701	RH-IX0553AWZZ	J	AX	System Microcomputer, IX0553AW
IC851	VHIKIA7812AP1	J	AF	Voltage Regulator,KIA7812AP
IC852	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810AP
IC853	VHIKIA7805AP1	J	AF	Voltage Regulator,KIA7805AP
IC854	VHIAN78L05/-1	J	AE	Voltage Regulator,AN78L05
IC855	VSKTC2026//-1	J	AF	Silicon,NPN,KTC2026
IC901	VHISTK41242-1	J	BB	Power Amp.,STK41242

## TRANSISTORS

Q1	VSKTA1266GR-1	J	AB	Silicon,NPN,KTA1266 GR
Q4	VSKTA1271Y/-1	J	AC	Silicon,NPN,KTA1271 Y
Q101~104	VSKTC3200GR-1	J	AC	Silicon,NPN,KTC3200 GR
Q105~108	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J	AB	Silicon,NPN,KTA1266 GR
Q110	VSKRC104M//1	J	AC	Digital,NPN,KRC104 M
Q111	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q112	VSKTA1266GR-1	J	AB	Silicon,NPN,KTA1266 GR
Q113,114	VSKRC104M//1	J	AC	Digital,NPN,KRC104 M
Q302	VSKTC3194Y/-1	J	AD	Silicon,NPN,KTC3194 Y
Q360	VSKTA1266GR-1	J	AB	Silicon,NPN,KTA1266 GR
Q601~604	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q706~708	VSKTA1273Y/-1	J	AE	Silicon,NPN,KTA1273 Y
Q709,710	VSKRC102M//1	J	AC	Digital,NPN,KRC102 M
Q801	VSKTA1274Y/-1	J	AE	Silicon,NPN,KTA1274 Y
Q841	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q901~905	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q906	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y

## DIODES

D301,302	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D305	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D709~715	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D801,802	VHDD10XB60F-1	J	AL	Silicon,D10XB60F
D803~806	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D842~845	VHD1N4004S/-1	J	AB	Silicon,1N4004S
△ D846	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D851,852	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D853	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D855	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D856	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D857~859	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D905~907	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D909,910	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D911,912	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
LED701	VHP304VT2E1-1	J	AC	LED,Red,304VT2E1
LED703,704	VHPA503BC2E-1	J	AN	LED,White,A503BC2E
ZD1	VHEDZ3R3BSB-1	J	AB	Zener,3.3V,DZ3.3BSB
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD801	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA
ZD803	VHEDZ300BSB-1	J	AB	Zener,30V,DZ30BSB
ZD852	VHEDZ8R2BSB-1	J	AB	Zener,8.2V,DZ8.2B
ZD902,903	VHEDZ120BSB-1	J	AB	Zener,12V,DZ12BSB

## FILTERS

BF301	RFILR0008AWZZ	J	AE	Band Pass Filter
CF303	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

## TRANSFORMERS

△ PT801	RTRNP0467AWZZ	J	BD	Power
△ PT841	RTRNP0483AWZZ	J	AL	Power
T301	RCILB0065AWZZ	J	AC	OSC,FM
T302	RCILI0017AWZZ	J	AB	FM IF
T303	RCILA0052AWZZ	J	AE	AM Antenna
T306	RCILB0067AWZZ	J	AD	AM OSC
T351	RCILI0019AWZZ	J	AD	AM IF

## COILS

L1	VP-XHR82K0000	J	AC	0.82 μH,Choke
L103	VP-MK331K0000	J	AB	330 μH,Choke
L312	RCILR0056AWZZ	J	AB	FM RF
L351,352	VP-DH101K0000	J	AB	100 μH,Choke
L701	VP-DH101K0000	J	AB	100 μH,Choke
L901,902	RCILZ0024AWZZ	J	AC	3 μH,Choke

## VARIABLE CAPACITORS

VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
VD302,303	VHCSVC211C/-1	J	AG	Silicon,Variable Capacitance, SVC211C

## VIBRATORS

X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0019AWZZ	J	AF	Crystal,4.5 MHz
XL1	RCRM-0047AWZZ	J	AE	Ceramic,16.9344 MHz
XL701	RCRSP0003AWZZ	J	AH	Crystal,4.194304 MHz

## CAPACITORS

C1	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C2	VCTYMN1CY103N	J	AA	0.01 μF,16V
C3	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C4	VCKYMN1HB102K	J	AA	0.001 μF,50V
C5	VCQYKA1HM473J	J	AB	0.047 μF,50V,Mylar
C6	VCTYPA1CX104K	J	AB	0.1 μF,16V
C8	VCTYMN1CX272K	J	AA	0.0027 μF,16V
C9	RC-EZ0004AWZZ	J	AD	3.3 μF,16V,Electrolytic
C10	RC-EZY106AF1E	J	AB	10 μF,25V,Electrolytic
C11	RC-EZY224AF1H	J	AB	0.22 μF,50V,Electrolytic
C12	VCKYMN1HB101K	J	AA	100 pF,50V
C13	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C14	RC-EZY107AF1A	J	AB	100 μF,10V,Electrolytic
C15	VCKYMN1HB102K	J	AA	0.001 μF,50V
C16	RC-EZY337AF0J	J	AA	330 μF,6.3V,Electrolytic
C17	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C19	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C20,21	VCKYMN1HB102K	J	AA	0.001 μF,50V
C22	VCTYMN1CY103N	J	AA	0.01 μF,16V
C23,24	RC-EZY106AF1E	J	AB	10 μF,25V,Electrolytic
C25,26	VCQYKA1HM152K	J	AB	0.0015 μF,50V,Mylar
C27	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C28~30	VCKYMN1HB101K	J	AA	100 pF,50V
C33	VCKYMN1HB101K	J	AA	100 pF,50V
C35	VCQYKA1HM473J	J	AB	0.047 μF,50V,Mylar
C36	VCEAZA1HW224M	J	AB	0.22 μF,50V,Electrolytic
C37	VCTYPA1CX104K	J	AB	0.1 μF,16V
C38	VCTYMN1CY103N	J	AA	0.01 μF,16V
C39~41	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C42	VCTYMN1CY103N	J	AA	0.01 μF,16V
C43	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C44	VCKYMN1HB102K	J	AA	0.001 μF,50V
C45	VCCCMN1HH220J	J	AA	22 pF (CH),50V
C48	VCKYMN1HB102K	J	AA	0.001 μF,50V
C101,102	VCKYMN1HB561K	J	AA	560 pF,50V
C103	VCKYBT1HB181K	J	AA	180 pF,50V
C104	VCKYMN1HB181K	J	AA	180 pF,50V
C105,106	VCKYMN1HB561K	J	AA	560 pF,50V
C107~110	VCKYMN1HB331K	J	AA	330 pF,50V
C111,112	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C113,114	VCTYPA1EX333K	J	AA	0.033 μF,25V
C115,116	VCKYMN1HB561K	J	AA	560 pF,50V
C117,118	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C119,120	VCTYMN1CX222K	J	AA	0.0022 μF,16V
C121	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C123,124	VCKYMN1HB271K	J	AA	270 pF,50V

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
C125,126	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic	C611,612	VCTYMN1CX222K	J AA	0.0022 μF,16V
C127,128	VCTYPA1CX223K	J AA	0.022 μF,16V	C613,614	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C129,130	VCTYMN1CX332K	J AA	0.0033 μF,16V	C615,616	VCEAZA1HW475M	J AB	4.7 μF,50V,Electrolytic
C131,132	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic	C617~624	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C133	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic	C625,626	VCTYMN1CX222K	J AA	0.0022 μF,16V
C134	VCEAZA1AW227M	J AC	220 μF,10V,Electrolytic	C639	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C135	VCTYMN1EF223Z	J AA	0.022 μF,25V	C640	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic
C137	VCQYKA1HM473K	J AB	0.047 μF,50V,Mylar	C651~653	VCKYMN1HB221K	J AA	220 pF,50V
C138	VCQPKA2AA822J	J AA	0.0082 μF,100V,Polypolypropylene	C690,691	VCKYMN1HB391K	J AA	390 pF,50V
C139	VCQYKA1HM393K	J AB	0.039 μF,50V,Mylar	C701	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C140	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic	C702	VCEAZA1AW227M	J AC	220 μF,10V,Electrolytic
C141	VCEAZA1CW107M	J AC	100 μF,16V,Electrolytic	C704	VCCSMN1HL150J	J AA	15 pF,50V
C143	VCEAZA1HW335M	J AB	3.3 μF,50V,Electrolytic	C705	VCCSMN1HL180J	J AA	18 pF,50V
C150	VCEAZA1HW476M	J AB	47 μF,50V,Electrolytic	C707	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C302	VCKYMN1HB102K	J AA	0.001 μF,50V	C709,710	VCTYMN1CX472K	J AA	0.0047 μF,16V
C303	VCCCMN1HH100J	J AA	10 pF (CH),50V	C712	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C304	VCTYMN1CY103N	J AA	0.01 μF,16V	C714	VCEAZA1HW335M	J AB	3.3 μF,50V,Electrolytic
C305	VCCCMN1HH4R7C	J AA	4.7 pF (CH),50V	C715	VCTYMN1EF103Z	J AB	0.01 μF,25V
C306	VCTYMN1EF223Z	J AA	0.022 μF,25V	C717	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C307	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic	C720,721	VCTYMN1EF223Z	J AA	0.022 μF,25V
C308	VCCCMN1HH4R7C	J AA	4.7 pF (CH),50V	C801	VCEAZA1VW107M	J AC	100 μF,35V,Electrolytic
C309	VCKYMN1HB102K	J AA	0.001 μF,50V	C802,803	VCEAZA1HW476M	J AB	47 μF,50V,Electrolytic
C310	VCCCMN1HH150J	J AA	15 pF (CH),50V	C804	VCEAZA1JW227M	J AD	220 μF,63V,Electrolytic
C311	VCCSMN1HL180J	J AA	18 pF,50V	C805	VCEAZA2AW226M	J AC	22 μF,100V,Electrolytic
C312	VCTYMN1EF223Z	J AA	0.022 μF,25V	C806~809	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C313	VCCCMN1HH220J	J AA	22 pF (CH),50V	C810,811	VCQYKA1HM104K	J AB	0.022 μF,100V,Mylar
C314,315	VCTYMN1CX472K	J AA	0.0047 μF,16V	C841	VCEAZA0JW108M	J AC	1000 μF,6.3V,Electrolytic
C316	VCTYMN1EF223Z	J AA	0.022 μF,25V	C842	VCEAZA1VW477M	J AD	470 μF,35V,Electrolytic
C317	VCKYMN1HB102K	J AA	0.001 μF,50V	C843	VCQYKA1HM473K	J AB	0.047 μF,50V,Mylar
C318	VCKYMN1HB101K	J AA	100 pF,50V	△ C844	RC-KZ002LAWZZ	J AC	0.0047 μF,250V,Ceramic
C320	VCKYBT1HB102K	J AA	0.001 μF,50V	C851	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C323	VCTYMN1EF223Z	J AA	0.022 μF,25V	C854,855	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C324	VCCUMN1HJ4R7D	J AA	4.7 pF (UJ),50V	C856	VCEAZW1VW338M	J AH	3300 μF,35V,Electrolytic
C330	VCCUMN1HJ150J	J AA	15 pF (UJ),50V	C858,859	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C331	VCKZPA1HF473Z	J AA	0.047 μF,50V	C861	VCKZPA1HF223Z	J AA	0.022 μF,50V
C332	VCTYMN1EF223Z	J AA	0.022 μF,25V	C863	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic
C334	VCCCMN1HH220J	J AA	22 pF (CH),50V	C864	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C335	VCKYMN1HB561K	J AA	560 pF,50V	C865	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic
C338	VCKYMN1HB102K	J AA	0.001 μF,50V	C901,902	VCEAZA1HW104M	J AB	0.1 μF,50V,Electrolytic
C342	VCTYMN1EF223Z	J AA	0.022 μF,25V	C903,904	VCKYMN1HB102K	J AA	0.001 μF,50V
C350,351	VCTYMN1EF223Z	J AA	0.022 μF,25V	C905,906	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic
C352	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic	C907	VCKYMN1HB101K	J AA	100 pF,50V
C353,354	VCTYMN1EF223Z	J AA	0.022 μF,25V	C908	VCCCMN1HH3R3C	J AA	3.3 pF (CH),50V
C355	VCCSMN1HL220J	J AA	22 pF,50V	C909	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C356	VCKYMN1HB102K	J AA	0.001 μF,50V	C910	VCCCMN1HH3R3C	J AA	3.3 pF (CH),50V
C357	VCEAZA1HW225M	J AB	2.2 μF,50V,Electrolytic	C911,912	VCEAZA2AW107M	J AD	100 μF,100V,Electrolytic
C358	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic	C913	VCKYMN1HB101K	J AA	100 pF,50V
C361	VCTYMN1EF223Z	J AA	0.022 μF,25V	C914,915	VCEAZA2AW107M	J AD	100 μF,100V,Electrolytic
C362	VCEAZA1HW335M	J AB	3.3 μF,50V,Electrolytic	C916	VCEAZA1HW107M	J AC	100 μF,50V,Electrolytic
C363	VCTYMN1EF223Z	J AA	0.022 μF,25V	C917	VCQYKA1HM103K	J AA	0.01 μF,50V,Mylar
C364	VCEAZA1HW225M	J AB	2.2 μF,50V,Electrolytic	C918	VCEAZA1HW107M	J AC	100 μF,50V,Electrolytic
C365	VCKZPA1HF223Z	J AA	0.022 μF,50V	C919	VCQYKA1HM103K	J AA	0.01 μF,50V,Mylar
C366	VCKYMN1HB102K	J AA	0.001 μF,50V	C920	RC-EZ0029AWZZ	J AN	3300 μF,71V,Electrolytic
C367	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic	C921,922	RC-EZ0106AWZZ	J AN	4700 μF,35V,Electrolytic
C368	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic	C923	RC-EZ0029AWZZ	J AN	3300 μF,71V,Electrolytic
C369	VCCUMN1HJ270J	J AA	27 pF (UJ),50V	C925	VCEAZA1HW476M	J AB	47 μF,50V,Electrolytic
C370~372	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic	C928,929	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C373,374	VCTYPA1CX153K	J AA	0.015 μF,16V	C931	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic
C380	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic	C946	VCEAZA1HW104M	J AB	0.1 μF,50V,Electrolytic
C381	VCCCMN1HH120J	J AA	12 pF (CH),50V				
C382	VCCCMN1HH150J	J AA	15 pF (CH),50V				
C383	VCCSBT1HL470J	J AA	47 pF,50V				
C384	VCKYMN1HB102K	J AA	0.001 μF,50V				
C385	VCTYMN1CY103N	J AA	0.01 μF,16V				
C386	VCKYMN1HB331K	J AA	330 pF,50V				
C387	VCTYMN1EF223Z	J AA	0.022 μF,25V				
C388	VCKYMN1HB102K	J AA	0.001 μF,50V				
C389	VCKYBT1HB102K	J AA	0.001 μF,50V				
C391	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic				
C392	VCKYMN1HB102K	J AA	0.001 μF,50V				
C393	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic				
C394	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic				
C395	VCTYMN1EF223Z	J AA	0.022 μF,25V				
C396	VCEAZA1AW107M	J AB	100 μF,10V,Electrolytic				
C397	VCTYMN1EF223Z	J AA	0.022 μF,25V				
C398	VCEAZA1AW107M	J AB	100 μF,10V,Electrolytic				
C399	VCTYMN1EF223Z	J AA	0.022 μF,25V				
C601	VCEAZA1CW227M	J AC	220 μF,16V,Electrolytic				
C602	VCKZPA1HF223Z	J AA	0.022 μF,50V				
C603	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic				
C605~608	VCIFYHA1HA124J	J AB	0.12 μF,50V,Thin Film				
C609,610	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic				

## RESISTORS

R1,2	VRD-MN2BD000C	J AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
R3	VRD-MN2BD822J	J AA	8.2 kohms,1/8W
R4,5	VRD-MN2BD223J	J AA	22 kohms,1/8W
R6	VRD-MN2BD822J	J AA	8.2 kohms,1/8W
R7	VRD-MN2BD223J	J AA	22 kohms,1/8W
R8	VRD-ST2CD470J	J AA	47 ohms,1/6W
R9	VRD-ST2CD103J	J AA	10 kohm,1/6W
R10	VRD-MN2BD100J	J AA	10 ohm,1/8W
R11	VRD-MN2BD273J	J AA	27 kohms,1/8W
R12	VRD-MN2BD103J	J AA	10 kohm,1/8W
R13	VRD-MN2BD331J	J AA	330 ohms,1/8W
R14,15	VRD-ST2CD153J	J AA	15 kohms,1/6W
R16	VRD-MN2BD102J	J AA	1 kohm,1/8W
R17	VRD-ST2CD102J	J AA	1 kohm,1/6W
R18	VRD-MN2BD102J	J AA	1 kohm,1/8W
R19	VRD-ST2CD153J	J AA	15 kohms,1/6W
R20	VRD-MN2BD103J	J AA	10 kohm,1/8W
R21	VRD-ST2EE1R0J	J AA	1 ohm,1/4W
R22	VRD-ST2CD101J	J AA	100 ohm,1/6W



# CD-E700/CD-E77

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R24,25	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R26,27	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R28,29	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R31	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R32~38	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R39,40	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R41	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R42	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R43	VRD-MN2BD221J	J	AA	220 ohms,1/8W
R46	VRD-ST2EE1R0J	J	AA	1 ohm,1/4W
R101,102	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R112	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R113,114	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R115,116	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R117,118	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R119,120	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R121,122	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R123,124	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R126,127	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R128,129	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R130,131	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R132,133	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R134,135	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R136	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R137	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R138	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R139	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R140	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R141	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R142	VRD-RT2HD820J	J	AA	82 ohms,1/2W
R143	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R144	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R145	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R146	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R147	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R148	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R149	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R150	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R302	VRD-MN2BD100J	J	AA	10 ohm,1/8W
R309	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R311	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R313	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R314	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R316	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R322	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R325	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R327	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R336	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R350	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R365	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R372~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R375	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R378	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R384	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R386	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R387	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R388	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R391,392	VRD-ST2EE271J	J	AA	270 ohms,1/4W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R393	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R395	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R601	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R602,603	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R604	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R605	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R606,607	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R608,609	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R610,611	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R612,613	VRD-MN2BD391J	J	AA	390 ohms,1/8W
R614,615	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R616,617	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R618	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R619	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R620,621	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R641	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R642	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R643,644	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R690,691	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R692,693	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R702	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R703,704	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R705	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R706	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R708~716	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R717	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R718~720	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R721	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R722	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R724	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R725	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R726,727	VRD-ST2CD681J	J	AA	680 ohms,1/6W
R728	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R729	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R730	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R731	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R732	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R733	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R734~736	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R739	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R740	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R746	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R747	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R749	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R750	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R751	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R756	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R757,758	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R759	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R761	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R762	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R763,764	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R765	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R766~768	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R769	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R770	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R772,773	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R775~780	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R781	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R782	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R783	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R791	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R794,795	VRD-ST2EE1R5J	J	AA	1.5 ohms,1/4W
R801	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R802	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R803	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R804,805	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R806	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R808	VRD-RT2HD222J	J	AA	2.2 kohms,1/2W
R841	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R842	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R843	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R844	VRD-ST2EE820J	J	AA	82 ohms,1/4W
R852	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R853,854	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R856,857	VRD-RT2HD3R3J	J	AA	3.3 ohms,1/2W
R858	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R859	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R860	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R901,902	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R903,904	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R905,906	VRD-MN2BD561J	J	AA	560 ohms,1/8W



NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R907	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R908	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R909	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R910	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R911	VRD-ST2CD563J	J	AA	56 kohms,1/6W
△ R912	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusable
R913	VRN-VV3LAR22J	J	AC	0.22 ohms,3W
R916	VRN-VV3LAR22J	J	AC	0.22 ohms,3W
R917	VRN-VV3LAR10J	J	AD	0.1 ohm,3W
R918	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R919,920	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R921	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R922	VRN-VV3LAR10J	J	AD	0.1 ohm,3W
R925,926	VRD-RT2HD152J	J	AA	1.5 kohms,1/2W
R927,928	VRD-ST2EE393J	J	AA	39 kohms,1/4W
R929,930	VRD-ST2EE473J	J	AA	47 kohms,1/4W
R934,935	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R937	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R938-941	VRD-RT2HD100J	J	AA	10 ohm,1/2W
R942,943	VRS-VV3DA391J	J	AC	390 ohms,2W
R944,945	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R946	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R947	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R949	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R950	VRD-ST2CD683J	J	AA	68 kohms,1/6W
△ R958	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusable
R961	VRD-MN2BD1R0J	J	AA	1 ohm,1/8W
RD01	VRD-ST2CD681J	J	AA	680 ohms,1/6W
RD02	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD03	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RD04	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD05	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD06	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD10	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD11	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD12	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RD13	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RD14	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD15	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD16	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD19	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD20	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD21	VRD-MN2BD102J	J	AA	1 kohm,1/8W

## OTHER CIRCUITRY PARTS

BI4/CNS4	QCNWN1572AWZZ	J	AF	Connector Ass'y,6/6Pin
BI601/CNS601	QCNWN2465AWZZ	J	AG	Connector Ass'y,9/8Pin
BI701/CNS701	QCNWN2466AWZZ	J	AH	Connector Ass'y,11/10Pin
BI703/CNS703	QCNWN2505AWZZ	J	AC	Connector Ass'y,2/2Pin
BI704/CNS704	QCNWN2505AWZZ	J	AC	Connector Ass'y,2/2Pin
BI801/CNS801	QCNWN2469AWZZ	J	AH	Connector Ass'y,11/10Pin
CNP1	QCNCM704GAWZZ	J	AC	Plug,7Pin
CNP2	QCNCM704HAWZZ	J	AC	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP3A	92LCONE6P53254	J	AC	Plug,6Pin
CNP4	QCNCM705FAFZZ	J	AB	Plug,6Pin
CNP5	92LCONE8P53254	J	AC	Plug,8Pin
CNP6	92LCONEAP53254	J	AD	Plug,10Pin
CNP101	QCNCM705CAFZZ	J	AA	Plug,3Pin
CNP102	QCNCM705GAFZZ	J	AB	Plug,7Pin
CNP301	92LCONE3P5268	J	AC	Plug,3Pin
CNP701A	QCNCWZY16AWZZ	J	AD	Socket,16Pin
CNP701B	QCNCWZX16AWZZ	J	AD	Socket,16Pin
CNP702	QCNCWZY07AWZZ	J	AC	Socket,7Pin
CNP703,704	92LCONE2P53253	J	AB	Plug,2Pin
CNP705	QCNCW012EAWZZ	J	AC	Socket,5Pin
CNP801	92LCONEAP5267X	J	AC	Plug,10Pin
CNP802	QCNCW012FAWZZ	J	AC	Plug,6Pin
CNP971	92LCONE2P53253	J	AB	Plug,2Pin
CNS1A/B	QCNWN1537AWZZ	J	AG	Connector Ass'y,7/7Pin
CNS2A/B	QCNWN1538AWZZ	J	AG	Connector Ass'y,8/8Pin
CNS3A/B	QCNWN1539AWZZ	J	AE	Connector Ass'y,6/6Pin
CNS971	QCNWN1389AWZZ	J	AC	Connector Ass'y,2Pin
△ F801,802	QFS-D402DAWNI	J	AC	Fuse,4A,125V
△ F803,804	QFS-D202DAWNI	J	AC	Fuse,2A,125V
△ F805	QFS-D402DAWNI	J	AC	Fuse,4A,125V
FFC701	QCNWN2471AWZZ	J	AF	Flat Cable,16Pin
FFC702	QCNWN2495AWZZ	J	AD	Flat Cable,7Pin
FL701	VVKNA09SS29-1	J	AX	FL Display
FW701	QCNWN2467AWZZ	J	AC	Flat Wire,6Pin

FW802	QCNWN2473AWZZ	J	AC	Flat Wire,4Pin
FW901	QCNWN2470AWZZ	J	AC	Flat Wire,5Pin
JK690	QSOCJ0224AWZZ	J	AC	Jack,Video/AUX
JK701	QJAKM0004AWZZ	J	AK	Jack,Headphones
JOG701	QSW-Z0015AWZZ	J	AF	Switch,Push Type [Jog Volume]
LG3	QLUGP0001AWZZ	J	AC	Lug
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	RMOTV0373AFZZ	J	AL	Motor with Worm Pulley [T/T Up Down Loading Motor]
M901	RMOTV0027AWZZ	J	AM	Motor,Air Cooling Fan
△ RL841	RRLYD0018AWZZ	J	AH	Relay
RL914	RRLYD0016AWZZ	J	AH	Relay
RX701	VHLGP1UM271-1	J	AH	Remote Sensor,GP1UM271
SO901	QTANA0423AWZZ	J	AE	Terminal,Speaker
SW1	QSW-M0012AWZZ	J	AM	Switch,Leaf Type [Open/Close]
SW2	QSW-M0012AWZZ	J	AM	Switch,Leaf Type [Clamp]
SW3	QSW-M0012AWZZ	J	AM	Switch,Leaf Type [Disc Number]
SW4	QSW-F9001AW01	J	AD	Switch,Push Type [Pickup In]
SW701	92LSWICHT1663T	J	AC	Switch,Key Type [Power]
SW702	92LSWICHT1663T	J	AC	Switch,Key Type [Memory Set]
SW703	92LSWICHT1663T	J	AC	Switch,Key Type [REC/Pause]
SW704	92LSWICHT1663T	J	AC	Switch,Key Type [Tuning Down]
SW705	92LSWICHT1663T	J	AC	Switch,Key Type [Tuning Up]
SW706	92LSWICHT1663T	J	AC	Switch,Key Type [Timer/Sleep]
SW707	92LSWICHT1663T	J	AC	Switch,Key Type [Clock]
SW711	92LSWICHT1663T	J	AC	Switch,Key Type [CD]
SW712	92LSWICHT1663T	J	AC	Switch,Key Type [Tuner]
SW713	92LSWICHT1663T	J	AC	Switch,Key Type [Video/AUX]
SW714	92LSWICHT1663T	J	AC	Switch,Key Type [Tape]
SW715	92LSWICHT1663T	J	AC	Switch,Key Type [Stop]
SW716	92LSWICHT1663T	J	AC	Switch,Key Type [Play]
SW717	92LSWICHT1663T	J	AC	Switch,Key Type [Fast Forward]
SW718	92LSWICHT1663T	J	AC	Switch,Key Type [Fast Rewind]
SW721	92LSWICHT1663T	J	AC	Switch,Key Type [X-Bass/Demo]
SW722	92LSWICHT1663T	J	AC	Switch,Key Type [Equalizer]
SW723	92LSWICHT1663T	J	AC	Switch,Key Type [Open/Close]
SW724	92LSWICHT1663T	J	AC	Switch,Key Type [Disc Skip]
WTM701	QCNCW019FAWZZ	J	AB	Holder,Flat Wire,6Pin
WTM801,802	QCNCW015DAWZZ	J	AB	Holder,Flat Wire,4Pin
WTM901	QCNCW019EAWZZ	J	AB	Holder,Flat Wire,5Pin

## CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0080AWZZ	J	AC	Rail,Guide
304	NSFTM0020AWFW	J	AD	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
△ 306	92LHPC1LXASY	J	BD	Pickup Unit Ass'y
306- 1	—	—	—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

## CABINET PARTS

201	92LCAB4896AASY	J	BC	Front Panel Ass'y [CD-E700]
201	92LCAB4957AASY	J	BC	Front Panel Ass'y [CD-E77]
201- 1	—	—	—	Front Panel (Not Replacement Item)
201- 2	GCOVA1487AWSA	J		Cover,Cassette [Tape 1] [CD-E700]
201- 2	GCOVA1467AWSB	J	AH	Cover,Cassette [Tape 1] [CD-E77]
201- 3	GCOVA1487AWSA	J		Cover,Cassette [Tape 2] [CD-E700]
201- 3	GCOVA1468AWSB	J	AH	Cover,Cassette [Tape 2] [CD-E77]
201- 4	GDORF0118AWSA	J	AE	Holder,Cassette [Tape 1]
201- 5	GDORF0119AWSA	J	AE	Holder,Cassette [Tape 2]
201- 6	HDECQ0963AWSA	J	AG	Panel,AMP.
201- 7	JKNBZ0921AWSA	J	AF	Button,Power/Tuning [CD-E700]
201- 7	JKNBZ0921AWSB	J	AF	Button,Power/Tuning [CD-E77]

## CD-E700/CD-E77

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
201-8	JKNBZ0922AWSA	J	AE	Button,Open/Close [CD-E700]
201-8	JKNBZ0922AWSB	J	AE	Button,Open/Close [CD-E77]
201-9	JKNBZ0923AWSA	J	AG	Button,Operation A
201-10	JKNBZ0924AWSA	J	AK	Button,Operation B
201-11	JKNBZ0925AWSA	J	AL	Button,Function
201-12	JKNBZ0926AWSA	J	AE	Button,X-BASS/Equalizer
201-13	GCOVA1460AWSA	J	AC	Cover,Sensor
201-14	GCOVA1351AWSA	J	AB	Cover,Timer LED
201-15	MSPRD0151AWFJ	J	AB	Cassette Spring,Tape 1
201-16	MSPRD0152AWFJ	J	AB	Cassette Spring,Tape 2
201-17	MLIFP0008AWZZ	J	AD	Damper
201-18	HBDGB1007AWSA	J	AD	Badge,SHARP
202	92LCAB3838BASY	J	AN	Side Panel Ass'y,Left [CD-E700]
202	92LCAB3839BASY	J	AN	Side Panel Ass'y,Left [CD-E77]
202-1	—	—	—	Side Panel,Left (Not Replacement Item)
202-2	PCUSG0022AWZZ	J	AB	Cushion,Leg
203	92LCAB3838CASY	J	AN	Side Panel Ass'y,Right [CD-E700]
203	92LCAB3839CASY	J	AN	Side Panel Ass'y,Right [CD-E77]
203-1	—	—	—	Side Panel,Right (Not Replacement Item)
203-2	PCUSG0022AWZZ	J	AB	Cushion,Leg
204	GCAB-1197AWZZ	J	AM	Loading Tray
205	GCAB-1215AWSA	J	AT	Top Cabinet [CD-E700]
205	GCAB-1215AWSB	J	AR	Top Cabinet [CD-E77]
206	GCOVA1486AWSA	J	J	Cover,CD Tray [CD-E700]
206	GCOVA1469AWSB	J	AK	Cover,CD Tray [CD-E77]
207	GITAR1113AWSA	J	AM	Rear Panel [CD-E700 for U.S.A.]
207	GITAR1135AWSA	J	AM	Rear Panel [CD-E77 for U.S.A.]
207	GITAR1136AWSA	J	AM	Rear Panel [CD-E700 for Canada]
207	GITAR1137AWSA	J	AM	Rear Panel [CD-E77 for Canada]
208	KMECB0032AWZZ	J	BD	Tape Mechanism Ass'y
208-1	92LF513-894	J	J	Head Plate Block [Tape 2]
208-2	92LF525-357	J	J	Motor with Pulley [Tape]
208-3	92LF567-719	J	—	Tape Mechanism PWB Ass'y
208-4	92LF522-063	J	AZ	Clutc Ass'y Block [Tape 2]
208-5	92LFF20D-12	J	J	Belt,Main [Tape 2]
208-6	92LF514-131	J	J	Pinch Roller
208-7	92LFF19S-31	J	AL	Belt,FF/REW [Tape 1]
208-8	92LFF20B-13	J	J	Belt,Main [Tape 1]
208-9	92LF522-061	J	J	Clutc Ass'y Block [Tape 1]
208-10	92LFF19S-52	J	J	Belt,FF/REW [Tape 2]
208-11	92LF513-895	J	J	Head Plate Block [Tape 1]
209	LANGK0110AWFW	J	AE	Bracket,Cassette Lock,Tape 1
210	LANGK0111AWFW	J	AE	Bracket,Cassette Lock,Tape 2
211	LANGK0317AWFW	J	AF	Bracket,Fan Support
212	LBSHC0005AWZZ	J	AD	Bushing,AC Power Supply Cord
213	LCHSM0174AWFW	J	AN	Chassis,Main
214	LCHSM0155AWZZ	J	AS	Chassis>Loading
215	LHLDM1018AWZZ	J	AE	Stabilizer
216	LHLDZ1455AWZZ	J	AF	Holder,CD Mechanism
217	LHLDZ1358AWZZ	J	AF	Stabilizer Holder
218	LHLDZ1433AWZZ	J	AD	Holder,Gear
219	LHLDZ1410AWZZ	J	AD	Holder,FL Display
220	LHLDZ1412AWZZ	J	AC	Holder,LED
221	MCAMP0010AWZZ	J	AE	Gear,Can Upper
222	MCAMP0011AWZZ	J	AE	Gear,Can Lower
223	MLEVP0109AWZZ	J	AB	Lever,Cam Lock
224	MLEVP0110AWZZ	J	AB	Lever,Switch A
225	MLEVP0111AWZZ	J	AB	Lever,Switch B
226	MLEVP0112AWZZ	J	AB	Turntable Actuator
227	MLOKC0003AWZZ	J	AD	Lock Lever,Cassette,Tape 1
228	MLOKC0004AWZZ	J	AD	Lock Lever,Cassette,Tape 2
229	MSPRC0033AWFJ	J	AB	Spring,Friction
230	MSPRD0109AWFJ	J	AB	Spring,Cassette Lock,Tape 1
231	MSPRD0110AWFJ	J	AB	Spring,Cassette Lock,Tape 2
232	MSPRP0057AWFW	J	AC	Spring,Tray Lock
233	MSPRP0068AWFW	J	AB	Spring,Motor Gear
234	NFANP0001AWZZ	J	AD	Rotary Fan
235	NGERH0152AWZZ	J	AC	Gear,Turntable Drive
236	NGERH0153AWZZ	J	AC	Gear,Drive
237	NGERW0020AWZZ	J	AC	Gear,Center
238	NGERW0021AWZZ	J	AC	Gear,Idler
239	NGERW0022AWZZ	J	AD	Gear,Worm
240	NGERW0023AWZZ	J	AC	Motor Gear
241	NTNT-0022AWZZ	J	AK	Turntable
242	PCUSG0022AWZZ	J	AB	Cushion,Leg
243	PMAGF0007AWZZ	J	AD	Magnet
244	PRDAR0261AWFW	J	AT	Heat Sink

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
△ 245	QACCD0022AWZZ	J	AM	AC Power Supply Cord
246	QCNWN1860AWZZ	J	AC	Lug Wire
△ 247	QFSDH0001AWZZ	J	AB	Holder,Fuse
248	92LCSPR1431C	J	AA	Spring,Ring
249	92LMT0304302	J	AB	Plate,Metal
250	92LNBAND1318A	J	AA	Nylon Band,80mm
251	92LPT0303002	J	AB	Roller
252	LANGK0359AWFW	J	AD	Bracket,Heat Sink
253	HDECQ0964AWSA	J	AF	Panel,Edge Light
254	LHLDZ1451AWZZ	J	AC	Holder,Edge Light
255	JKNBK0095AWSA	J	AK	Knob,Volume
257	PSHEP0119AWZZ	J	AD	Sheet,Edge Light
258	MLEVF0117AWFW	J	AC	Plate,Support
601	XJBSD30P10000	J	AA	Screw,ø3×10mm
602	XEBSD30P12000	J	AA	Screw,ø3×12mm
603	LX-EZ0010AWFD	J	AA	Screw,Special
604	LX-JZ0044AWFF	J	J	Screw,ø3×10mm
605	LX-HZ0009AWFD	J	AC	Screw,ø3×14mm
606	XHBSD26P04000	J	AA	Screw,ø2.6×4mm
607	92LSC0314WBZI	J	AB	Screw,Special
608	XJBSD20P05000	J	AA	Screw,ø2×5mm
609	XHBSD40P08000	J	AA	Screw,ø4×8mm
610	XBBSD20P04000	J	AA	Screw,ø2×4mm
611	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
612	XJSSD30P10000	J	AA	Screw,ø3×10mm
614	XHBSD30P06000	J	AA	Screw,ø3×6mm
615	LX-JZ0036AWFD	J	AB	Screw,Special
616	LX-JZ0037AWFD	J	AB	Screw,ø3×18mm
617	LX-JZ0003AWFF	J	AA	Screw,ø3×12mm
618	XESSD30P10000	J	AA	Screw,ø3×10mm
619	92LSC0310RBZI	J	J	Screw,Special

### PACKING PARTS (Except for U.S.A.)

SPAKA0431AWZZ	J	J	Packing Add.
SPAKC1555AWZZ	J	AU	Packing Case [CD-E700 For Canada]
SPAKC1556AWZZ	J	AU	Packing Case [CD-E77 For Canada]
SPAKP0032AWZZ	J	AF	Polyethylene Bag,Unit
92LBAG1460C1	J	AB	Polyethylene Bag, Accessories

### ACCESSORIES

QANTL0007AWZZ	J	AK	AM/FM Loop Antenna
TINSE0490AWZZ	J	AE	Operation Manual [Except for Canada]
TINSK0143AWZZ	J	AF	Operation Manual [For Canada]
TINSZ0874AWZZ	J	AD	Quick Guide [For U.S.A. Only]
TLABRF250AWZZ	J	AB	Label,Bar Code [For Canada Only] [CD-E700]
TLABRF251AWZZ	J	AB	Label,Bar Code [For Canada Only] [CD-E77]
TLABZ0593AWZZ	J	AB	Energy Star Label (Set)
TLABZ1318AWZZ	J	AC	Label,Feature [Tape 1]
TLABZ1322AWZZ	J	AC	Label,Feature [Tape 2]
RRMCG0361AWSA	J	AS	Remote Control
GFTAT1017AWSA	J	AK	Battery Lid,Remote Control

### P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~5	92LPWB4896MANS	J	—	Main/Display/Headphones/LED A/LED B (Combined Ass'y)
△ PWB-B1,2	92LPWB4896PWRS	J	—	Power/Transformer (Combined Ass'y)
PWB-C	92LPWB4896CDUS	J	—	CD Servo
PWB-D	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-E	QPWBF0749AWZZ	J	AD	CD Loading Motor (PWB Only)
PWB-F	92LF567-719	J	—	Tape Mechanism

### OTHER SERVICE PART

UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner
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NO.	PART CODE	★ PRICE RANK	DESCRIPTION
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**CP-E700/CP-E77****SPEAKER BOX PARTS**

901	GBOXS2026AWSA	J	Speaker Box Ass'y,Right [CP-E700]
901	GBOXS2026AWSC	J	Speaker Box Ass'y,Right [CP-E77]
901	GBOXS4026AWSA	J	Speaker Box Ass'y,Left [CP-E700]
901	GBOXS4026AWSC	J	Speaker Box Ass'y,Left [CP-E77]
902	CPNLS1076AW01	J AX	Front Panel Ass'y,Right [CP-E700]
902	CPNLS1076AW02	J AX	Front Panel Ass'y,Right [CP-E77]
902	CPNLS1077AW01	J AX	Front Panel Ass'y,Left [CP-E700]
902	CPNLS1077AW02	J AX	Front Panel Ass'y,Left [CP-E77]
903	HPNLS1078AWSA	J AW	Side Panel,Right [CP-E700]
903	HPNLS1078AWSB	J AW	Side Panel,Right [CP-E77]
903	HPNLS1079AWSA	J AW	Side Panel,Left [CP-E700]
903	HPNLS1079AWSB	J AW	Side Panel,Left [CP-E77]
904	RSPXZ0001AWZX	J AX	Passive Radiator
905	XJBSD40P16000	J AB	Screw,ø4×16mm
906	XJBSD30P12000	J AA	Screw,ø3×12mm
907	XMPSF40P40000	J AC	Screw,ø4×40mm
908	XMBSF40P16000	J AC	Screw,ø4×16mm
909	TSPC-1164AWZZ	J AC	Label,Specifications [CP-E700]
909	TSPC-1188AWZZ	J AC	Label,Specifications [CP-E77]
910	PFLT-0046AWZZ	J AC	Felt
911	QCNWN2483AWZZ	J AQ	Speaker Cord Ass'y (with Capacitor C1,2)
912	PCUSG0141AWZZ	J	Cushion,Foot
SP1,2	RSPA10092AW6W	J BD	Woofer
SP3,4	RSPA00078AW6T	J AS	Tweeter
SP5,6	LHLDZ1457AWM1	J AT	Super Tweeter Ass'y
SP7,8	LHLDZ1457AWM1	J AT	Super Tweeter Ass'y

**PACKING PARTS (Except for U.S.A.)**

SPAKA0416AWZZ	J	AM	Packing Add.
SPAKZ1033AWZZ	J		Sheet,Protection
SSAKH0053AWZZ	J	AC	Polyethylene Bag,Speaker

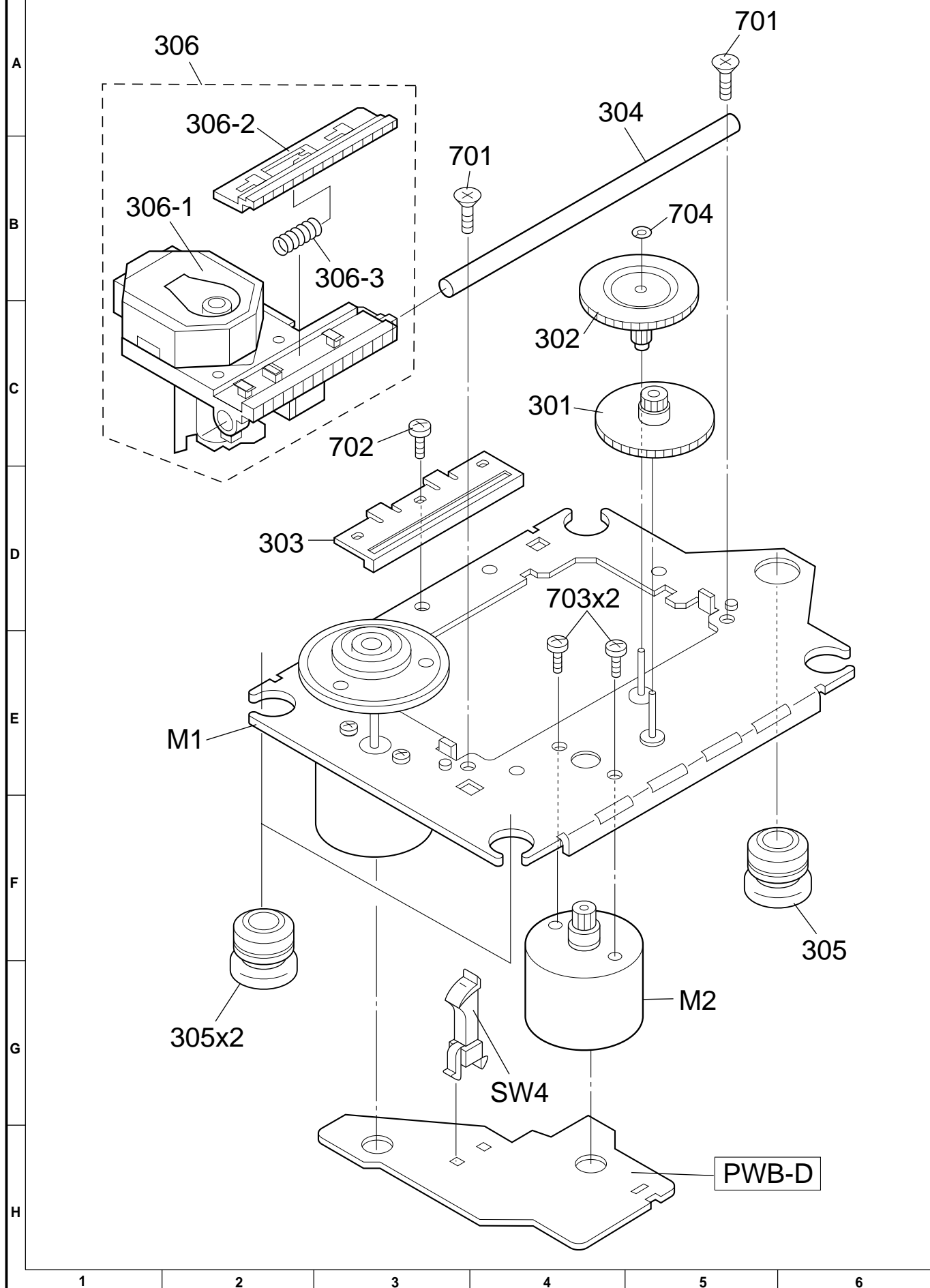
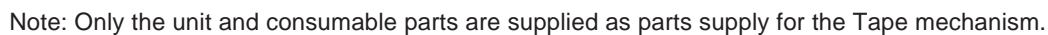


Figure 7 CD MECHANISM EXPLODED VIEW



- 8 -



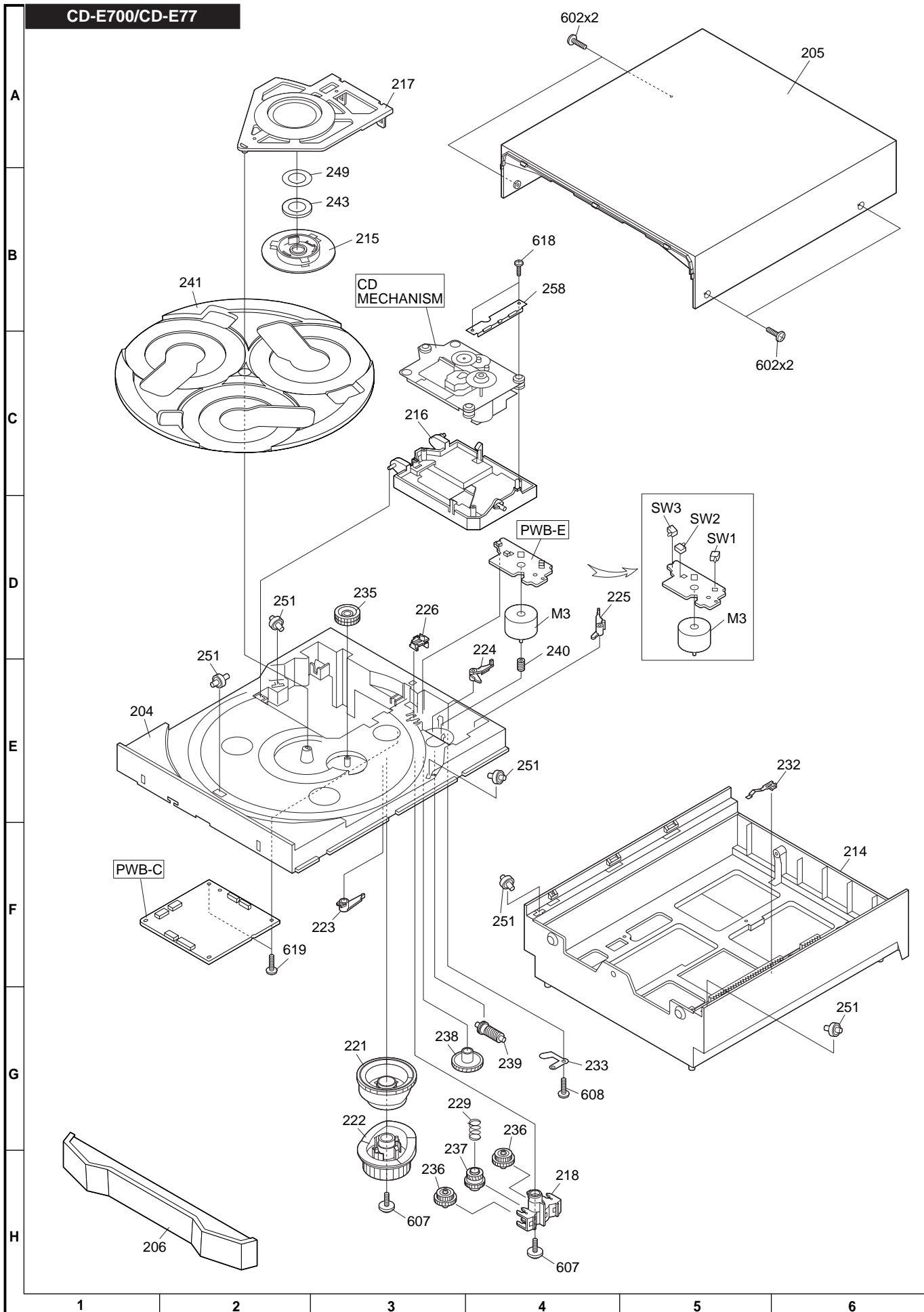


Figure 9 CABINET EXPLODED VIEW (2/2)

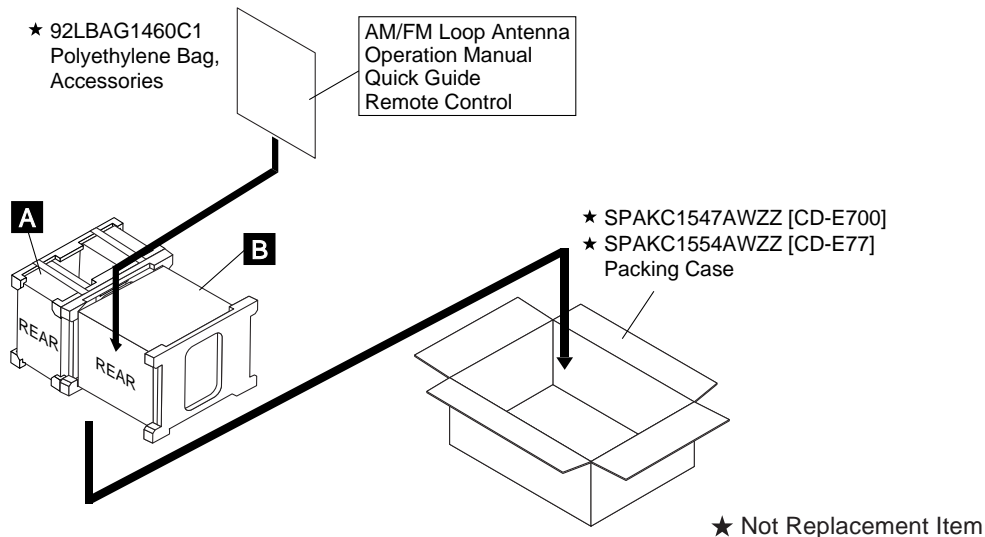
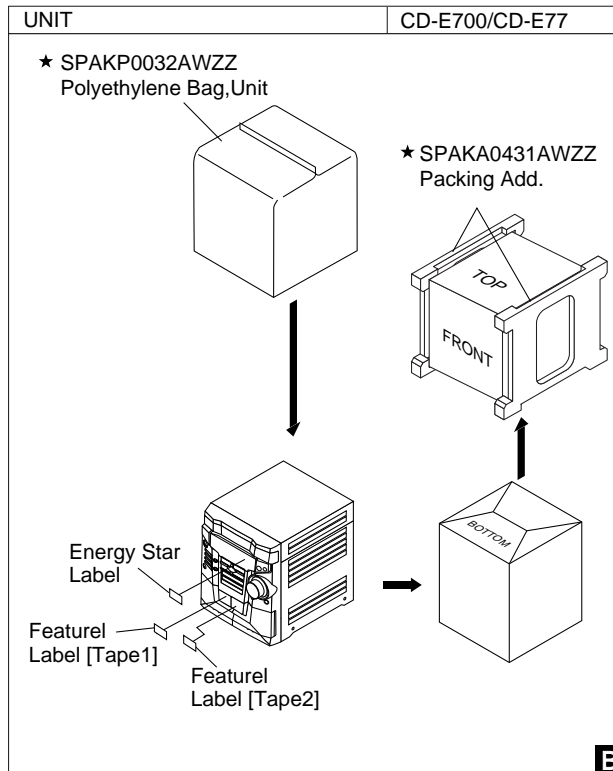
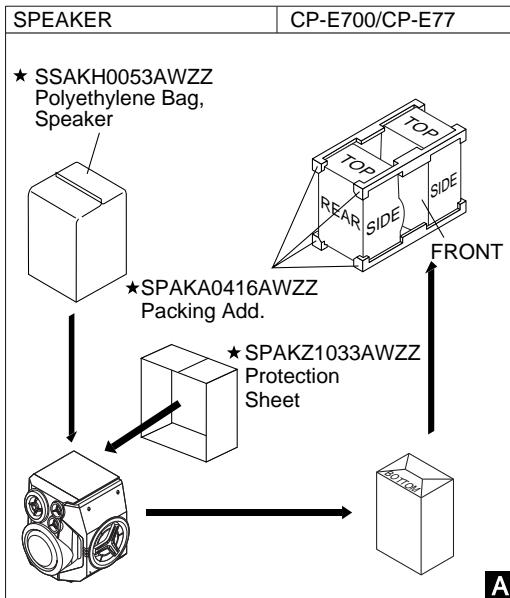


# PACKING OF THE SET (FOR U.S.A. ONLY)

## Setting position of switches and knobs

Tape Mechanism

STOP



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